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THE YEARBOOK OF THE UNIVERSITIES OF THE EMPIRE

THE YEARBOOK OF THE UNIVERSITIES OF THE EMPIRE

1921

EDITED BY W. H. DAWSON AND
PUBLISHED FOR THE
UNIVERSITIES BUREAU OF
THE BRITISH EMPIRE



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PREFACE

THE *Yearbook* was first published in 1914. Two further editions were issued during the war, but, by the close of 1916, it was felt that no useful purpose would be served by its continued publication. Owing to the absence of men students and teachers on military service, the ordinary activities of the Universities were reduced to the lowest level compatible with continued existence; such appointments as had to be made were, for the most part, temporary; legislative changes, apart from regulations framed to meet the needs of soldier-students, were few. The publication of reports of the multifarious war services, other than combatant, which the Universities were rendering to the nation was forbidden; and any account from which such records were excluded would have given to the future historian an inadequate conception of the part they were playing in the world-crisis.

The fourth edition, published in Aug. 1920, gave summaries of the events of 1916–19 and included an account (40 pp.) of the War Work, other than combatant, undertaken by the Universities of the United Kingdom, and of the contributions to His Majesty's Forces of the Universities overseas.

In this, as in previous editions, an attempt has been made to present a conspectus of the calendars of all British Universities both at home and overseas. To do this in a volume of manageable dimensions compels the use of abbreviations. It is hoped that abbreviation has not been pressed beyond the limits of intelligibility.

Since a statement of the sources of the various degrees held by University teachers gives, in small space, information regarding the educational history of their holders, much trouble has been taken in ascertaining their origin. If no name of a University follows a degree it may be assumed that it was conferred by the University under which the name is entered.

With the exception of Honours conferred by H.M. the King, titles other than degrees are omitted where they do not throw light upon the standing of their holders in the subjects which they profess. The letters M.R.C.S., L.R.C.P. cannot be said to add to the distinction of a man who is M.D., M.Ch., although it may be of interest to note that a medical teacher of an Oversea University holds diplomas of the Royal Colleges of England.

The admission of Swansea Technical College as a Constituent College of the University of Wales and the constitution of the new University of Dacca have necessitated the introduction of two new sections. What was formerly the Montreal branch of the Laval University now figures as Montreal University, and the South African School of Mines and Technology has become University College, Johannesburg.

Appendices to previous editions, summarizing the regulations governing admission to various professions and occupations for which a University education is a fitting preparation, and giving particulars of inter-university scholarships and fellowships for research, etc., have been revised and supplemented. A new Appendix has been added, giving certain items of information concerning some foreign Universities.

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THE UNIVERSITIES BUREAU OF THE EMPIRE

At the final, Delegates', meeting of the Congress of 1912 it was resolv.. that steps be taken for the formation in London of a Bureau of Informa tion for the Universities of the Empire. From its inception unti November 1919 the Bureau was, by the great courtesy of the Director allowed the use of a room in the Imperial Institute. In the spring o 1919 the Government offered a non-recurrent grant of £5000 to enable the Committee to secure and furnish premises suitable for the wide activities which the Bureau had developed, on condition that the Universities of the Empire undertook to provide funds adequate to its maintenance. The Committee thereupon purchased the lease of No. 50 Russell Square. Offices in this building have been let to—

The British Branch of the American University Union *Director*—George MacLean, M.A., B D., Ph.D., Hon. LL D.

The Office National des Universités et Écoles Françaises *Director*—A. Philibert, L. ès L., L. ès D.

The Anglo-Danish Bureau, established by the Danish Students' International Committee. *Director*—J. H. Helweg Cand. Mag.

COMMITTEE

(Appointed in accordance with a resolution of the Delegates to the Congress of the Universities of the Empire, at a Meeting in London on July 5, 1912)

Prof. J. T. WILSON, M.A., F.R.S., representing Australia.

President Sir ROBERT A. FALCONER, K.C.M.G., M.A., D.Litt., LL.D., one of the two representatives of Canada

T. C. FITZPATRICK, D.D., President of Queens', representing Cambridge.

Prof. Sir THOMAS H. HOLLAND, K.C.S.I., K.C.I.E., D.Sc., F.R.S., representing India.

J. W. JOYNT, M.A., representing New Zealand.

Principal T. LOVEDAY, M.A., representing South Africa.

Principal Sir DONALD MACALISTER, K.C.B., M.A., M.D., D.C.L., LL.D., F.R.C.P., representing Scotland (*Chairman*).

Vice-Chancellor Sir ISAMBARD OWEN, M.A., M.D., D.C.L., F.R.C.P., representing Birmingham, Bristol, and Wales.

Principal Sir E. COOPER PERRY, M.A., M.D., F R.C.P., representing London (*Treasurer*).

Vice-Chancellor Sir MICHAEL E. SADLER, K.C.S.I., C.B., M.A., LL.D., representing Durham, Leeds, Liverpool, Manchester, and Sheffield.

Prof. C. SAMUT, M.D., representing Hong-Kong and Malta.

President H. MARSHALL TORY, M.A., D.Sc., LL.D., one of the two representatives of Canada.

E. M. WALKER, M.A., representing Oxford.

Secretary: ALEX HILL, M.A., M.D., F.R.C.S.

EXPLANATORY NOTE

ARRANGEMENT OF SUBJECT HEADINGS

Medical Subjects (other than Anatomy, Biochemistry, Biology, Botany, Chemistry, Embryology, Histology, Physics, Physiology, and Zoology) have in most cases been grouped under the head Medicine at the end of the general alphabetical series, and the same course has been followed in regard to Agriculture, Engineering, Law, Oriental Languages, Public Health, Technology, and Theology, in cases where, owing to the nomenclature adopted for the subdivisions of subjects under these heads or to their being specially numerous, incorporation in the general alphabetical list appeared to be inconvenient.

UNIVERSITIES OF THE UNITED KINGDOM OF GREAT BRITAIN AND IRELAND

REPRESENTATIVES IN PARLIAMENT

Oxford (2), Cambridge (2), London, Wales, Scottish (3), Dublin, National of Ireland, Belfast—v. the sections relating to these Univs.

Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield—Rt. Hon. H. A. L. FISHER, M.A.; Sir MARTIN CONWAY, M.A.

INTRODUCTORY

UNIVERSITIES were the outcome of the great intellectual revival which affected Europe in the twelfth and thirteenth centuries. Shortly after the Schools of Bologna and Paris had developed into what we now term Univs., similar seats of learning arose at Oxford and Cambridge. The Univs. of Scotland and the Univ. of Dublin were founded in the fifteenth and sixteenth centuries. All other Univs. of the United Kingdom are products of the past hundred years.

Unlike those of most other countries, the Univs. of the United Kingdom have been, since their origin, independent of State control. As autonomous institutions they have developed out of the Univs. of the Middle Ages under the compulsion of internal forces, with very little influence from outside. The historical continuity of their evolution and their individual independence account for certain customs and usages in which they differ one from another and from Univs. in other lands. Their titles of degrees may be taken as an illustration. A Univ. of the Middle Ages was a Guild of learned men. Teaching was the craft of the Guild, whose fellowship carried with it the right to teach. An admitted aspirant for fellowship was termed a bachelor. The members of the Guild recognized his apprenticeship after submitting him to certain tests or, as we should term them, examns. After gaining some experience in teaching, and successfully maintaining a thesis in public disputation, the bachelor attained to his degree. Admitted into the Guild, with its *jus ubique docendi*, he was known indifferently as doctor, master or professor. Still following this ancient usage, the degree in Scotland is the mastership, M.A. In Oxford, Cambridge and Dublin, where the examn. for the bachelorship grew to be the determining test, the mastership, which carries with it all the privileges of membership of the Guild, or Senate, follows without further examn. after an interval of two or three years, but in no case

less than six years from matricn. For convenience in standardizing the attainments of their alumni, modern Univs. have divided the degree into stages—usually described as the "first" and "higher" degrees—Bachelorship, Mastership and Doctorate.

At all the Univs. WOMEN are admitted to all courses of instruction, with some reservations as to courses in Engineering and as to attendance at classes in Medical subjects, upon the same terms and under the same conditions as men. Except at Cambridge, women are eligible for all degrees, with the exception of degrees in Divinity in the Scottish Universities. At Cambridge women are admitted to all examns., but not to degrees. See p. 46.

The distinguishing characteristic of British Univs., as compared with those of the Continent of Europe, has from the earliest days been the provision of halls of residence, or COLLEGES, in which students live as members of a community, with the privileges of social intercourse and subject to the mutual influence which corporate life exerts.

ADMISSION AS AN UNDERGRADUATE.—Before inserting a student's name *in matricula* all Univs. exact evidence that the applicant's intellectual equipment fits him to undertake a course of study for a degree.

Matriculation examinations covering the usual subjects of education in a secondary school are held by the Univs. of Durham, London, Wales, Belfast, Dublin, Ireland (N.U.I.), and the Joint Board of Manchester, Liverpool, Leeds, Sheffield and Birmingham. Analogous examns. are held by Oxford ("Responsions"), Cambridge ("Previous Examn."), and the Scottish Univs. Entrance Board ("Preliminary Examn."), and these must be passed (or exemption on the ground of having passed equivalent examns. must be obtained) by all students proceeding to degrees, though not necessarily before entering upon courses of study in the Univs. Many of the Oxford and Cambridge Colleges make the passing of Responsions or the Previous or equivalent examns. a condition of admission to the College. Bristol has discontinued its matricn. examn. as superfluous in view of the institution of the School Certificate and Higher Certif. examns. (v. *infra*), and the admission to them, as required by the Board of Education, of candidates not presented by schools.

At all the Univs. English, Mathematics, and at least *one* language other than English are compulsory, except that Oxford and Bristol allow a branch of Natural Science to be taken instead of or in addition to Maths., and the Durham Colleges allow a choice between English and Greek Testament, and between Maths. and Logic.

Cambridge, Dublin, Durham (except Armstrong College), Oxford, Belfast (for Arts students), Birmingham (for Arts students), and the National Univ. of Ireland (for Medical, including Dental, students) all require *two* languages other than English, namely: in the case of Belfast—any 2 of the following, (*a*) Greek, (*b*) Latin, (*c*) French, (*d*) German, (*e*) Italian, (*f*) Spanish, (*g*) Celtic; Birmingham—Latin and a modern language; Cambridge—Latin and either one of (*a*), (*c*), (*d*), (*e*), (*f*), or a combination, on a lower standard, of (*c*) with (*a*), (*d*), (*e*), or (*f*);

Dublin—Latin and one of (*a*), (*c*), (*d*), (*e*), (*f*), or Russian; Oxford—2 of (*a*), (*b*), (*c*), (*d*), including either Latin or Greek; N.U.I.—Latin and, if the candidate is exempted from the necessity of presenting Irish, any prescribed modern language.

Greek or Latin, though not compulsory at the London matricn. examn., is so at the Interm. examn. in *Arts* of this Univ. Greek or Latin is likewise compulsory for Arts students at Liverpool, Armstrong Coll., and the N.U.I. (Arts, Philos., or Celtic studies); Latin for Arts students at Leeds, Manchester, Sheffield, and the Scottish Univs., and in most qualifying schemes for the Wales B.A. degree, for *Law* students at Manchester, Sheffield, Wales, and the N.U.I., and for Medical students at Manchester and the Scottish Univs. Irish is compulsory at the N.U.I. for all students, except those born outside Ireland or whose home residence has been outside Ireland for 3 yrs. immediately preceding matricn. At Oxford and Cambridge Arabic, Sanskrit, Chinese, Pali, or, at Oxford, Persian or French, may under certain conditions be offered by natives of Asia or Africa not of European parentage in lieu of Latin or (Oxford) Greek; and in Scotland any approved classical language may be substituted for Greek or Latin by students whose native language is other than European. All candidates for admission to Scottish Univs. whose native language is other than English, who have not passed in English at the Intermediate or Final examn. for a degree in Arts, will be required to pass a special test in English including an oral examn.

In other subjects a considerable latitude of choice is allowed: the Joint Board for 5 English Univs., for instance, while requiring candidates to pass in English Composition and Literature, English History, and Mathematics, allow a choice of any three of the following, one of which must be a language—Greek, Latin, French, German, some other approved language, Mechanics or Physics, Chemistry, Geography, Natural History or Botany, General Experimental Science.

School Leaving Examinations.—England. In 1918 there came into operation a scheme originated by the Board of Education in consultation with all the Univs. of England for co-ordinating Secondary School examns. Under this scheme the following were recognized by the Board as approved—

I. As "First Examinations," suitable for pupils about the age of 16, the standard being such that a Pass with Credit in the three main groups of School subjects (English subjects, Foreign Languages, Mathematics and Science) would entitle a candidate to admission to a Univ.;—The "School Certificate" examns. of the Oxford and Cambridge Schools Examn. Board, Bristol, Durham and the Northern (Birm., Leeds, Liv., Manc., Sheff.) Univs. Joint Matricn. Board; "The General School" examn. of London; and the Oxford (Delegacy) and Cambridge (Syndicate) "Senior Local" examns.

II. As "Second Examinations," suitable for pupils about 2 years older, framed on the assumption that the candidate has, after the stage marked by the first examn., followed a more specialized course;—The "Higher Certificate" examns. of the Oxford and Cambridge Schools Examns. Board, Durham, and the Northern Univs. Joint Board;

" Higher School Certificate " examns. of Bristol, London, Oxford (Delegacy for Local Examns.), and Cambridge (Syndicate for Local Examns.).

With a view to securing equality of standard and the acceptance of the certificates by Univs. and Professional Bodies, the Board of Education exercises a co-ordinating authority with the help of a " Secondary School Examinations Council " composed of 19 representatives of the Examining Bodies, County Council Assocn., Assocn of Municipal Corporations, Assocn. of Education Committees and Teachers' Registration Council. Provision is made for ensuring that teachers in the Schools are brought into touch with the Examining Bodies (supplied in all cases by the Univs.), that a School is examined, if it so desires, on its own syllabus, unless the Examining Body considers it inadequate; and that estimates of the merits of their candidates in each of the subjects offered by them are submitted by Head Masters and Head Mistresses and are taken into account in the award of certificates.

Schools are not required as a condition of recognition for grants to take these examns., but Schools on the grant list entering pupils for them under conditions approved by the Board receive an additional grant in respect of each pupil so entered. Schools are warned against determining their organization or curriculum exclusively or principally with reference to the requirements of any examn. The arrangement of organization or curriculum for the purpose of preparing any pupils or Form for any examn. not approved by the Board is expressly forbidden.

Among the functions of the Secondary School Examns. Council is negotiation with Univs. and Professional Bodies for the acceptance of the examn. certificates as exempting the holders from certain other examns. They are now accepted, subject to various qualifications, by all English Univs. as exempting from entrance examns.

Wales. The Senior and Higher examns. of the Central Welsh Board are accepted, subject for subject, as affording a test of fitness for matricn. equivalent to the Univ.'s matricn. examn., so also, subject for subject, are the Ox. and Camb. Schools Examn. Board's School (Pass with Credit) and Higher Certif., the Scotch Educn. Dept.'s Leaving Certif. (Higher Grade) and the Intermediate Educn. Board of Ireland's Senior Grade Certif.

Scotland. On December 31, 1918, there came into operation Ordinance No. 70 (General No. 3) of the University Courts of the four Scottish Univs. as to Admission for purposes of graduation. This defines the normal test of fitness as " the production of evidence duly attested by a competent authority of the satisfactory completion of a suitable course of secondary education " and sets up an Entrance Board to regulate the application of this principle. This Board, which has superseded the Joint Board of Examiners for the Scottish Univs., will provide by " General Regulations " for the recognition of Group Certifs. of the Scotch Education Dept. and, in the case of Schools in Scotland not regularly presenting candidates for these certifs., other evidence of completion of suitable courses. It will similarly provide for the recogni-

tion of Leaving or other certifs., in the case of applicants from outside Scotland. The admission of applicants who, owing to exceptional circumstances, have not been able to fulfil the normal conditions will be provided for by " Special " Regns. In the meanwhile, the Preliminary Examn. Regns. of the Joint Board are continued (v. p. 208).

Ireland. The Senior Grade examn. of the Intermediate Education Board of Ireland is accepted, subject for subject, in lieu of the matricn. examns. of Dublin, Nat. Univ. of Ireland and (subject to special conditions in respect of Maths.) Belfast. Belfast and the N.U.I. also accept, subject for subject, the Scottish Leaving Certif. (Higher or Hons.), the Higher Certif. of the Ox. and Camb. Schools Examn. Board and (Belfast only) the Bristol School Certif.

ADMISSION OF STUDENTS FROM THE KING'S DOMINIONS OVERSEAS AND FROM FOREIGN COUNTRIES. Certificates which would qualify for admission to Univs. outside the United Kingdom are accepted as satisfying, in whole or in part, the matricn. requirements of the Univs. of the United Kingdom. Intending students should apply for information to the Registrar of the Univ. in which they desire to be matriculated.

TERMS. The academic year is divided into three terms, which run from about Oct. 1 to the middle of Dec.; the middle of Jan. to the end of March; the middle of April to the end of the first week in July.

FEES are charged at all the Univs. of the U.K. They vary somewhat in the different Univs., but are, on the average, for Arts £25, for Science £32, for Engineering or for Medicine £30 to £50 per annum in English Univs. In Scottish, Welsh, and Irish Univs. the fees are lower.

CONFERENCES. In May 1917 representatives of the Univs. and Univ. Colleges of the U.K. met in Conference to devise measures for the further encouragement of Post-graduate Study and Research. It was resolved that it was desirable that a degree should be instituted carrying the title of Doctor, obtainable by graduates of British and foreign Univs. after a course of advanced study and research. The conditions and regulations for such a degree were further considered at adjourned meetings held on May 10, 1918, Jan. 24, 1919, and March 14, 1919. The resulting legislation is summarized on p. 10.

Amongst other matters considered by Conference during the past four years have been included Interchange of Teachers and Students, the Tenure of University Offices, Superannuation and Provision of Pensions.

In May 1918 Mr. Balfour summoned at the Foreign Office a Conference of representatives of the Univs. of the U.K. for the purpose of putting before them a proposal that on the invitation of the Govt. of the U.S. a Universities' Mission should be sent to America. At this meeting Mr. Balfour took the opportunity of pressing upon the Univs. the desirability of establishing a representative body to which matters

of interest to the Univs. might be referred by Govt. Departments. He urged the necessity of the creation of "an organ of expression" which would voice the desires and aspirations of the British Univs. and represent them in their relations with the Univs. of other nations. At a subsequent meeting Conference resolved that "it is desirable in the interests of the Univs. and of the nation that steps be taken to promote co-operation and mutual consultation among the Univs. of Great Britain and Ireland, and, further, that the Vice-Chancellor or Principal of each Univ. or a deputy appointed by him, together with the Executive Committee of the Universities' Bureau, be appointed a Standing Committee to consider any matters of common interest arising out of the proceedings of this Conference or submitted to it by the Govt. and to report from time to time to the Conference."

On the recommendation of Mr. Balfour a Handbook of the Univs. of the U.K. was prepared by the Hon. Secretary of the Bureau for the use of the Mission to America. This Handbook was published by the Board of Education and is obtainable from H.M. Stationery Office or from the Bureau, price 9d.

The Standing Committee of Vice-Chancellors has dealt with such matters as the presentation of the case for Increased Grants to Univs. and Univ. Colleges, leading to the Deputation to the President of the Board of Education and the Chancellor of the Exchequer which was received in Nov. 1918, the relations of the Univs. and Univ. Colleges to national schemes for the Promotion of Research, the question of controlling the number of students in professional and other subjects, the Recognition of the Special Army Education Certif., as qualifying for matriculation, Fees for Courses of Undergraduate and for Post-graduate Study and the possibility of adopting a uniform scale in each of the several Faculties of all Univs. of the U.K., the relations of the Univs. to Training Colleges for Teachers.

INTERCHANGE OF TEACHERS AND STUDENTS between the Univs. of the King's Dominions overseas and of foreign countries and the Univs. of the U.K. In May 1919 a Committee was established for the purpose of promoting interchange.

UNIVERSITY MISSIONS. Following the Mission to America already referred to, the British Univs. in May 1919 accepted an invitation to appoint a delegation to visit the Univs. of France as guests of the French Republic. In the autumn of 1919 a similar invitation was accepted from the Belgian Govt.

DEGREES OF THE UNIVERSITIES OF THE UNITED KINGDOM

GRADUATION marks the satisfactory completion of a three or four years' Univ. course. At Oxford, Cambridge, Dublin, and in the Scottish Univs. the Faculty of Arts is not subdivided. Except in Scotland, where the mastership (M.A.) takes the place of the bachelor-

ship, B.A. is the "first degree," whether the course leading to it be literary or scientific. In Trinity College, Dublin, it is necessary to secure the B.A. before proceeding to any other degree (except in music). In Scotland, as alternatives to the M.A., the student may take as his "first degree" the B.Sc., pure or applied (the standard being that of M.A. with Honours), the B.L., or the B.Com. At St. Andrews the B.Phil. or the B.Litt. may be taken either conjointly with, or after, the M.A. At Cambridge there is no B.Sc. At Oxford there are special degrees, B.Litt. and B.Sc. (vide *infra*).

At all other Univs. a course in Arts leads to the B.A., in Science to the B.Sc., in Commerce to the B.Com., and similarly to other titles in other departments of knowledge.

Each of the Faculties of Theology, Law, Medicine, and Music has its own bachelor's degree.

The signatures of the titles of degrees vary. In the following list the more usual signature is placed first:

Bachelor of Arts: B.A.

Bachelor of Science: B.Sc., Sc.B. Dub.

Bachelor of Science in its various applications: B.Sc. (Engineering), B.Eng. Liv., B.A.I. Dub.; B.Sc. (Metallurgy), B.Met. Sheff.; B.Sc. (Mining), B.Sc. (Mining Engineering) Glas.; B.Sc.Tech., B.Sc. (Textile Technology) Belf.; B.Sc. (Applied Chemistry); B.Sc. (Naval Architecture); B.Sc. (Veterinary Science), B.V.Sc. Liv.; B.Sc.Agr., Agr.B. Dub., B.Agr.Sc. N.U.I.; B.Sc. (Forestry), Agr.B. (Forestry) Dub.; B.Sc. (Horticulture); B.Sc. (Estate Management); B.Sc. (Economics); B.Sc. (Public Health), B.Hy. Durh.; B.Sc. (Pharmacy).

Bachelor of Commerce: B.Com., B.Comm. N.U.I., B.Com.Sc. Liv., Belf.

Bachelor of Architecture: B.Arch.

Bachelor of Dental Science: B.D.S., B.Ch.D. Leeds, B.Dent.Sc. Dub.

Bachelor of Education: B.Ed. (of the Scottish Univs., two years after a first degree).

In Theology the title of the first degree is B.D. In Law it is LL.B., B.C.L. Ox. Durh., B.L. or (open only to graduates in Arts) LL.B. the Scottish Univs. In Medicine the signature of the title is M.B., B.M. Ox.; in Surgery, Ch.B., B.Ch. Camb. Dub. Ox., B.S. Durh. Lond.; in Obstetrics, B.A.O. Dub. N.U.I. In Music, Mus.B., B.Mus. Ox. Durh. Wales.

In all Univs. of the United Kingdom the first degree in Arts (or Science, if a separate faculty) may be obtained as an ordinary degree, or with Honours.

At Oxford the Honours Schools (B.A.) are in Literae Humaniores, Mathematics, Natural Science (including Engineering), Jurisprudence, Modern History, Theology, Oriental Studies, English Language and Literature, Modern European Languages, and Philos., Politics and Economics.

At Cambridge (Triposes), in Anthropology, Classics, Economics,

English, Geography, History, Law (B.A. and LL.B.), Mathematics, Mechanical Science, Modern and Medieval Languages, Oriental Languages, Moral Science, Natural Science, Theology.

In Scotland (M.A.), in Celtic Languages and Literature, Classics, Economic Science, English, History, Latin and French or Celtic, Mathematics and Natural Philosophy, Mental Philosophy, Modern Languages (St. Andrews, Natural Science), Sanskrit, Semitic Languages.

At Dublin (Moderatorships), in Mathematics, Classics, Mental and Moral Philosophy, Experimental Science, Natural Science, History and Political Science, Modern Literature, Legal and Political Science, Engineering Science, Celtic Languages.

At London, B.A. Hons. in Classics, Latin, Greek, Mathematics, Archæology, Architecture, English, French, German, Italian, Spanish, Dutch, Russian, Indian Branch, Arabic, Persian, Hebrew and Aramaic (including Syriac), Chinese, Philosophy, Psychology, History, Geography; B.Sc. Hons., Mathematics, Astronomy, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Human Anatomy and Morphology, Psychology, Anthropology, Statistics; B.Sc. Hons. (Economics); B.Sc. Hons. (Engineering); B.Sc. Hons. (Mining); B.Sc. Hons. (Metallurgy); B.D. Hons.; LL.B. Hons.; M.B, B.S. Hons.

In other Univs. Honours are obtainable in a variety of the subjects named above.

Recognition of Study at other Universities

UNDERGRADUATES.—The Univs. of Bristol and Leeds accept attendance for 1 yr. at any Univ. requiring residence as a qualification for a degree. At London any person who has passed the Intermediate examn. before registering as an Internal student may complete the course for a degree in 2 yrs. At Oxford members of certain Affiliated Colleges of the United Kingdom, and of certain approved home, colonial, and Indian Univs., who have attended lectures for at least 2 yrs. and attained a prescribed standard, are allowed to count the first term kept by residence as their fourth term. At Cambridge a similar privilege is allowed to students of "Affiliated Institutions." At Dublin students who have spent 2 yrs. in Arts studies at an approved Indian or colonial Univ. and have passed the examns. belonging to that period are given credit for the first academic year. At Durham a similar concession is made to students of science. In the Scottish and certain other Univs. attendance at lectures and examns. passed in other Univs. may be recognized by the Board of Studies, or Senate, after consideration of each case.

GRADUATES.—The remission to graduates of any other Univ. (or of an approved Univ.) of 2 yrs. of the 4 yrs.' course is made by the Univ. of Dublin, of 1 yr. of the 3 yrs.' course by the Scottish Univs. and by the Univs. of Bristol and London. At Oxford graduates of a home Univ. and others, being over the age of twenty-one, who can satisfy the Education Committee that they have received a good general education, are eligible to apply for admission to an approved course of special study and research for the degree of B.Litt. or B.Sc., and, if

successful, may supplicate for the degree after completing 2 yrs. of residence. At Cambridge graduates suitably qualified are admitted as Research students and may, after the satisfactory completion of a 2 yrs.' course and the submission of a dissertation, obtain the degree of M.Litt. or M.Sc. At Dublin a graduate of any approved Univ. who possesses a degree the equivalent of Moderatorship may, after 1 yr. of advanced study and research, present himself for examn. for the degree of Sc.B. Certain Univs. which have not adopted ordinances to that intent are prepared to consider applications from graduates of other Univs. who desire to read for higher degrees for remission of standing or exemption from examinations.

Higher Degrees

M.A.—At Cambridge a Bachelor of Arts may, without further examn., proceed to the M A. at the close of the 6th yr. after the end of his first term ; at Oxford in the twenty-first term after matriculation ; at Dublin 3 yrs. after passing the B A examn. At Durham graduates in Honours of 3 yrs.' (Sheffield 1 yr.'s) standing are admitted to the Mastership without further examn. ; graduates who did not take Honours must pass the M.A examn. Other Univs. exact a further period of study from their own graduates, followed by the presentation of a thesis, or an examn., or both, of 1 yr. at Birmingham, Leeds, Sheffield, and the N.U.I., of 1 yr. from graduates with Honours, and 2 yrs. from others, at Bristol, Manchester, and Wales ; of two years from all graduates at Liverpool and London. Graduates of approved Univs. can obtain the Mastership after 1 yr. of advanced study and research at Birm., Belf., and the N.U.I. ; after 2 yrs. at Bris., Leeds, Liv., Lond., Manc., Sheff., Wales. At London a thesis is required from Internal students in all branches, except Mathematics in which it is optional, and an examn. For External students the thesis is optional in all branches. At Liverpool and Manchester persons who have not graduated can obtain the M.A. degree after a course of advanced study and research extending, usually, over 3 years.

M.Sc.—This degree is not conferred by Oxford, Dublin, or the Scottish Univs. At other Univs. it can be obtained by graduates of the Univ. under conditions similar to those for the M.A. At Durham, by graduates, B.Sc., of 2 yrs.' (Sheffield 1 yr.'s) standing who took first or second class Honours, without further test. At Liverpool, by graduates, B.Sc., with Honours, after 1 yr.'s higher study without examn. At London, by Internal students of 2 yrs.', by External students of 1 yr.'s standing from B.Sc. with thesis (optional in Mathematics) and examn. At Manchester, by graduates, B.Sc., of 1 yr.'s standing after thesis and examn. (at the discretion of the Faculty). At Cambridge the degree is conferred upon Research students (vide *supra*). In other Univs. which confer the degree, graduates of approved Univs. can obtain the M.Sc. on terms similar to those for the M.A.

Other titles of Mastership conferred by various Univs.—M.Litt., M.Com., LL.M., M.Mus., M.A.O., M.Ch., M.D.S., M.V.Sc., M.H. (Hygiene), M.Eng., M.Sc.Tech., M.Met., M.Arch.

Ph.D.—All the Univs. of the United Kingdom now confer the degree of Philosophiæ Doctor. Candidates before entering upon a course of advanced study and research with a view to this degree must be at least 21 (Oxford—22, Dublin—no restriction) yrs. of age; must be graduates either of the Univ. or of some other approved Univ.; must have pursued their studies at a Univ. or Univs. for a period of at least 3 (Oxford—4, Dublin—not specified) yrs.; must produce evidence of fitness for the proposed course of study and research. The course for the degree extends over 3 yrs., except in special cases in which, on the ground of the candidate's previous training and attainments, it may be reduced to 2. At its termination the student must submit a dissertation and may be required to qualify also by examn. The degree is granted in any faculty in which the Univ. is prepared to receive advanced students.

A candidate for the degree of Ph.D., as an External student of the Univ. of London, must have graduated in the Faculty of Theology, Arts, Science, or Economics in this University not less than 2 academic yrs. previously.

Litt.D. and *Sc.D.*—The Doctorate in Letters and in Science is conferred upon Masters of Arts and Masters of Science (Dublin, Bachelors or Masters) distinguished by their contributions to the advancement of learning or science. The claim to the degree must be based upon either a special thesis, as at London, or upon published works. In certain Univs. the Faculty may require the applicant to appear for examn. An applicant for the Doctorate must be of 3 yrs.' standing from graduation at Dublin, Belfast, National Univ. of Ireland; 4 yrs.' at Manchester, London (for D.Sc.); 5 yrs.' at Birmingham, Sheffield, and the Scottish Univs.; 6 yrs.' at Durham (for D.Sc.), Leeds, Liverpool (for Litt.D. 4 yrs. from M.A.), Bristol, Cambridge; 7 yrs.' at Oxford; 10 yrs.', Univ. of Wales, London (for D.Lit.).

Graduates of other Univs. who have been admitted to the degree of M.A. or M.Sc. (Oxford, M.A., B.Sc., or B.Litt.; Dub., B.A.) can proceed to the Litt.D. or Sc.D. under the prescribed regulations. In Scotland Honours graduates of approved Univs. of 5 yrs.' standing who have spent the equivalent (4 terms) of two winter sessions in research at a Scottish Univ., have submitted a satisfactory thesis or published work, and have, if required, passed an examn., are admitted to the Doctorate. At Bristol the degree of D.Sc. can be obtained without previous admission to the M.Sc. At London and Manchester a candidate for the Doctorate may be specially exempted from the examn. for M.A. or M.Sc.

Degrees in Divinity

B.D. is conferred after examn. in the Scottish Univs. and the Univs. of Durham, London, Manchester, and Wales; after examn. and submission of a thesis at Dublin; after examn. and the submission of a dissertation and published works at Cambridge (examn. may be omitted) and at Oxford. At London the course must extend over 3 yrs., sub-

sequent to matriculation. In Scotland a candidate must be M.A. of a Scottish Univ. who has taken a theological course in a specially recognized institution, or a graduate of an approved Univ. who has taken a complete theological course of at least 2 yrs. in the Univ. conferring the degree ; at Dublin, a B.A. of 3 yrs.' standing ; at Durham, a man of 25 yrs. of age, who is either a graduate of 2 yrs.' standing or the holder of the Diploma in Theology ; in Wales, a graduate who, subsequent to graduation, has studied for 3 yrs. at an approved and accepted theological college ; at Cambridge, a candidate must be M.A. or LL.M. ; at Oxford, a candidate must be 26 yrs. of age, have followed a course of study in Christian Theology extending over 6 terms, and resided at the Univ. during 6 terms.

D.D.—In Scotland the degree is conferred *honoris causa tantum.* At London it is conferred upon B.D.'s who took Honours in at least one subject, on presentation of a dissertation, followed by an examn., if the examiners so desire. At other Univs. it is conferred in consideration of published works, or a dissertation (and, at Oxford, a *viva voce* examn., if the judges so desire). The requisite standing is, at Cambridge and London, 5 yrs. from B.D. ; Dublin, 8 yrs. from B.A. ; Durham, 10 yrs. from B.A. ; Manchester, 4 yrs. from B.D. (or 6 yrs. for B.D.'s of other Univs. who have studied for 2 yrs. at Manchester) ; Oxford, 14 yrs. from matricn., or, if he was admitted to the degree of B.D. as a graduate of another Univ., the candidate must have attained the age of 33 ; Wales, 6 yrs. from B.D.

Degrees in Medicine and Surgery

M.B., Ch.B.—The regulations for these degrees are practically uniform. A Preliminary examination satisfying the requirements of the General Medical Council—*i.e.* Matriculation, Responsions, Previous, or Scottish Preliminary. Registration as a medical student by the General Medical Council is recommended. Satisfactory attendance during at least 5 yrs. at courses of study and hospital practice. Four examns. (in some Univs. grouped as three or two). All examns. must be passed at the Univ. granting the degree, with the exception of the first, in Chemistry, Physics, and Biology, from which a candidate may be exempted if he has passed an equivalent examn. at the Univ., or elsewhere (Scottish Univs., Birmingham, Bristol, Dublin and Sheffield for South African students only, Durham, London). Study in the Univ. for at least 3 yrs., except for the degrees as an External student of the Univ. of London, who must study for 1 yr. in a Univ. of the United Kingdom ; or for 2 yrs., Scottish Univs., Leeds, Liverpool, Manchester ; for 1 yr. College of Medicine, Newcastle-on-Tyne (Durham). The Univs. of Oxford and Cambridge exact 3 yrs.' residence, but allow students to do any or all of their medical work at other recognized medical schools. At Oxford, Dublin, Univ. of Wales, candidates must graduate B.A. (or B.Sc., Wales) before admission to a medical degree.

M.D.—Candidates must be M.B., Ch.B. of, usually, 2 yrs.' standing (Oxford, 10 yrs. from Matriculation; Cambridge, M.B. of 3 yrs.', or M.A. of 4 yrs.' standing; Dublin, of M.A. standing). A dissertation is compulsory in almost all Univs., followed by an examn., unless the examiners pronounce the dissertation to be of such merit as to render further examn. unnecessary.

Ch.M.—Regulations similar to those for M.D.

Degrees in Dentistry and in Veterinary Science are obtainable under somewhat similar conditions.

Degrees in Law

LL.B. (or *B.C.L.*), obtainable with Honours or as an ordinary degree.—In the Scottish Univs. candidates must have graduated M.A.; at Belfast, Dublin, Durham (B.C.L.), National Univ. of Ireland, B.A. At Durham candidates must be of 4 yrs.' standing from B.A. In Wales the course extends over 4 yrs., the first year being spent on an intermediate course in Arts. At Belfast graduates of this, or of some other Univ., are eligible for the degree after a 1 yr.'s course in Law; at Oxford, after a 2 yrs.' course, if they obtain Honours in the B.C.L. examination. At Sheffield a graduate of a Univ. of the United Kingdom who has attended for 1 yr. the intermediate course in Law and for 2 yrs. studied in a recognized institution, may be a candidate for the degree. In the majority of Univs. there are two examns., Intermediate and Final.

LL.M.—Cambridge, Leeds, Liverpool, Sheffield. By standing for graduates in Law with Honours. For others, after examn.

LL.D. (or *D.C.L.*).—By the Scottish Univs. the Doctorate is awarded only *honoris causa tantum*. Other Univs., unless the degree be awarded *honoris causa*, require the submission of a thesis, dissertation, or published works, and may require attendance at an examn.; in Dublin a candidate may elect to undergo examn. in lieu of offering a thesis, etc. The requisite standing for the Doctorate is, at London, 2 yrs. from Honours LL.B.; Dublin, 3 yrs. from B.A.; Manchester, 4 yrs. from LL.B.; National Univ. of Ireland and Sheffield, 5 yrs. from LL.B.; Oxford (D.C.L.), 5 yrs. from B.C.L.; Cambridge, 5 yrs. from LL.M.; Leeds and Liverpool, 6 yrs.; Durham (D.C.L.) and Wales, 10 yrs. from graduation.

Degrees in Music

The degrees of Mus.B. (or B.Mus.) and Mus.D. (or D.Mus.) are conferred by the Univs. of Cambridge, Dublin, Durham, Edinburgh, London, Manchester, Oxford, and Wales; B.Mus. and M.Mus. Birmingham; Mus.M. Cambridge and Wales.

Mus.B.—At Birmingham, Cambridge, Dublin, Edinburgh, London, Manchester, and Wales, students must pass the same Entrance examn. (Matriculation, Previous, or Preliminary) as students in Arts; with,

at Birmingham, an examn. in the Rudiments of Music. At Durham they are admitted on a *testamur* as Students of Music. At Oxford they must pass either Responsions or the Preliminary for Students of Music, in which, if two of the three languages, French, German, Italian, are taken, neither Greek nor Latin is obligatory. In Wales a student must attend an intermediate class in Arts or Science in addition to the Music course. Residence is not obligatory at Dublin, Durham, or Oxford. At Edinburgh students must study Music in the Univ. for one whole winter session. As a rule, the course extends over 3 yrs. with two, or three, examns., including an exercise for the Final examn.

Mus.M.—Conferred 3 yrs. after the Mus.B. for original work and dissertation (Birmingham), after examn. and exercise (Cambridge, Wales).

Mus.D.—Conferred at Cambridge on graduates not less than 30 yrs. of age, and in Wales on graduates in any faculty of not less than 3 yrs.' standing in recognition of distinction as Composer or Executant; at Edinburgh on Mus.B.'s of 3 yrs.' standing, after examn. as Composer, Executant, or Theorist or Historian (Dissertation), and also *honoris causa tantum*; at Dublin on Mus.B.'s after further examn. or practical test; at London on Mus.B.'s of 2 yrs.' standing, Oxford 3 yrs.', Manchester 4 yrs.', Durham 5 yrs.', after exercise and examn.

UNIVERSITY OF BIRMINGHAM

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..... Asst. Lectr
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Jones, Evelyn, B.Sc. Asst. Lectr
Nicholas, S. D., B.A. Ox., A.I.C Lectr
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Wood, C. E., M.Sc., A.I.C. Lectr

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Walworth, G., M.A. Camb.
Pinkard, F. W., B.Sc. Wales.

King, H. G. S., B.Sc. Lond.
Glover, T. J., M.Sc. N.U.I.

Hirst, Margaret E., M.A.
Junr. Lectr.

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Thomson, J. Oliver, M.A. Aberd. B.A. Camb. (Latin) Prof.
Chambers, C. D., M.A. Ox. (Latin) Lectr.

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Donagan, A. E., M.A. Camb., L.D.S. Lectr.

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Hammond, Margaret, B.A.
Gill, Conrad, M.A. Leeds, B.A. Camb., Senr. Tutor, Continuation Training Dept.
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Buchanan, Miss F. M., M.A.
Finegan, Eleanor, M.A. Liv.
Lall, Diana.
Robertson, Muriel.
Leitch, N. M.
Crowther, W. E.
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Panton, R. C., M.Sc., M.A., B.A.I. Dub. Lectr.
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Kipps, E. J., M.Sc., M.I.E.E. Lectr.
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Harvey, G. M., B.Eng. Liv., A.M.I.E.E.
Randall, O. R., B.Sc. Lond.

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Baker, H., B.Sc. (Machine Design) Assist. Lectr.
Ellis, S. J. Demr.

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Wilson, F. P., B.Litt. Ox., M.A. Lectr.
Milner-Barry, A. Lectr.

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Roe, F. C., M.A Lectr.
Milne, Jane J., M.A. Lectr.
Roux, Louise Asst

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Raw, F., B.Sc. Lond., F G.S (Spl. Lectr. in Petrology) Lectr.
Wills, L. J., Ph.D., M.A. Camb., F.G.S. Lectr.

German
Sandbach, F. E., M.A. Camb., Ph.D. Strass. Prof.
Strachan, L. R. M., M.A. Lectr.
Liddell, M. F., M A. Edin Lectr

History [Prof.
Beazley, C. R., D.Litt. Ox., M.A.
Gill, Conrad (v. Educ.) Reader in Const. H.
Sutcliffe, Dorothy, M.A. Manc. and Leeds Lectr.
Adams, H. P., M.A. (Ancient H) Asst. Lectr.

Italian v. Spanish

Law v. Comm.

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Preece, C. T., M.A. Camb., Lectr.

Asst. Lectrs. :
Colomb, Ruby, M.A. Lond.
Calderwood, Nora I., M.A., B.Sc. Edin.
Lumsden, T. A., M.A., B.Sc. Edin.

Medicine v. *infra*

Metallurgy [Feeney Prof.
Turner, T., M.Sc., A.R.S.M., F.I.C. (Lectr. in Dental M.)

Ingall, D. H., B.Sc. Lectr.
Bamford, T. G., M.Sc. Liv. Lectr.

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Stansbie, J. H., B.Sc. Lond.

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Madgwick, T. G , A.R.S.M. Asst. Prof

Mining, Coal, and Surveying
Moss, K. N., M.Sc., F.G.S. Asst. Prof.
Stanley, J. J Demr.

Mining, Metal
Pitt, C. H., B.Sc. Lectr. & Demr.

Mine Rescue Work
Veale, A P Lectr.

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Harvey, J. W., M.A. Ox. Lectr.

Physics
Smith, S. W. J., M.A. Camb. D.Sc. Lond , F.R.S. Poynting Prof
Shakespear, G. A., D.Sc., M.A. Camb., B.A., B.Sc. Lond. (Spl. Lectr. in Expl. P.) Lectr.
Barlow, G., D.Sc. Birm., Wales, and Lond. Lectr.
Keene, H. B., D.Sc. Lectr.

Asst. Lectrs. :
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Young, J., B.Sc. Lond., A.R.C.S.
Dee, A. A., B.Sc. Lond. A.R.C.S.
Tyler, Edward, M.Sc.

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Carlier, E. W. W., M.Sc., M.D. Edin. F.R.S. Prof.
Walker, Hilda, M.B., Ch.B. Lectr.
Frost, I., M.R.C.S., L.R.C.P. Lectr.

Russian
Segal, L., M.A., Ph.D. Berne Lectr.

Spanish and Italian [Lectr.
De Arteaga, F., M.A. Ox., M.A.

Zoology and Comp. Anatomy
Gamble, F. W., D.Sc. Manc., M.Sc., F.Z.S., F.R.S. (Dir. of Agric. Z. Research) Mason Prof.
Jackson, H. G., M.Sc. Liv. Lectr.
Newth, H. G., A.R.C.S Lectr.

Zool., Agric. (Research)
..... Lectr.
Meggitt, F. J., Ph.D., M.Sc. (Asst. Helminthologist) Reader.

Medicine

Bacteriology v. Path.

Forensic M. & Toxicology
Morrison, J. T. J., M.A., M.B., B.C. Camb., F.R C.S. Prof.
Walker, C., M.D., B.Sc. Asst.

Hygiene and Public Health
Robertson, J., C.M.G., O.B.E., M.D., B.Sc. Prof.
Auden, G. A., M.D., M.A., B.C., D.P.H. Camb., F.R.C.P. (Hygiene) Asst. Lectr.

Infant Hygiene and Dis. of Children
Parsons, L. G., M.D. Lond. (also Clin. Lectr.) Lectr.

Materia Medica
Kneale, J. C., M.B., Ch.B. Lectr.
Greenwood, F. R., M.D., B.S. Lond., M.B., Ch.B. Demr.

Medicine
Russell, J. W., M.A., M.D., F.R.C.P. Prof.
Kauffmann, O. J., M.D., F.R.C.P. Prof.
Ball, L., M.B., B.S. Asst.

Mental Diseases
Hughes, P. T., M.B., Ch.M. Edin., D.P.H. Lond. Lectr.

Midwifery and Dis. of Women
Wilson, T., Ch.M., M.D. Lond., F.R.C.S. Prof.
Purslow, C. E., M.D. Lond. Lectr.
Hewetson, J. T., M.D., Ch.M., F.R.C.S. Asst.

Ophthalmology
Evans, J. J., M.D., F.R.C.S. Lectr.

Pathology & Bacteriology [Prof.
Dunn, J. S., M.A., M.D., Ch.B. ..... Lectr.
Lewis, C. J., M.D., D.Sc. Edin., F.R.C.P.E. (Board of Pub. Health) Spl. Lectr.
Wyatt, R B. H., M.R.C.S., L R.C.P. Demr.
Wilkinson, K. D., M.D. Asst.
Hardy, T. L., B.A., M.B. Asst.

Pharmacology v. Therap.

Psycho-Therapy
McDougall, W., M.A., M.B., B.C., F.R.S. Lectr.

Surgery
Leedham-Green, C., M.B., Ch.M., F.R.C.S. Prof.
Gamgee, L. P., F.R.C.S. Prof.
Barling, S., C.M.G, M.S., F.R.C.S. Asst.

Surgery, Operative
Heaton, G., M.A., M.B., B.Ch. Ox., F.R.C.S. Lectr.

Therapeutics
Stanley, D., M.D. Birm. and Edin., F.R.C.P. Prof.

AFFILIATED INSTITUTIONS

Midland Institute. Students are admitted to Intermediate Arts examn. as Internal students.

Saltley Training College. Students taking the 4-yr. course are admitted to the Intermediate Arts examn. as Internal students.

HANDSWORTH AND LICHFIELD THEOLOGICAL COLLEGES. Students can take the 2nd and 3rd yrs. for the B.A. in their own Colls.

GENERAL INFORMATION

The Univ., a development of the Mason College founded by Sir Josiah Mason in 1880, was incorporated by Royal Charter in 1900. The Charter prescribes instruction in all branches of a liberal education, and such instruction especially as may be of service in the manufactures, commerce, and industrial pursuits of the Midlands. Arts, Medicine, and the Biological departments are still housed in the buildings of Mason College in the centre of the city. Other buildings have been erected and equipped at a cost of £750,000 at Bournbrook on a site of 40 acres.

LIBRARY, about 75,000 vols. MUSEUMS, Anat., Dent., Geol., Zool. LABORATORIES: Chemical (with special organic, phys., electro-chem., analytical, and public health depts.); Engin., Mining, and Metall. (exceptionally well equipped and including expl. coal-mine and oil-boring plant and testing machines of high capacity); Brewing; Power-Station supplying whole Univ. with lighting, heat, and power. A small OBSERVATORY is attached to the dept. of Physics. HOSPITALS (600 beds) available for clinics—General, Queen's and many special.

FACULTIES. Arts (including Music), Science (Pure and Applied), Medicine (including Dentistry and Public Health), Commerce.

DEGREES, ETC. B.A., B Mus., M.A., M.Mus., D.Phil., D.Litt.; B.Sc. (in Pure Science, or in Engineering—Civ., Elec., or Mech., Metallurgy, or Mining), M.Sc., D.Sc.; M.B., Ch.B., B.Sc. (Pub. Health), B.D.S., M.D., Ch.M., M.D.S.; B.Com., M Com.; Ph.D. (in any Faculty); LL.D. (Honorary).

No degree can be obtained without attendance upon prescribed courses in the Univ. extending over at least 3 academic yrs. after matricn. except in the case of graduates of other Univs. who are, under certain conditions, admitted to the 1 yr. courses for the M.A. and M.Sc. and to 2 yrs. courses for the B.Sc. (courses in technical subjects), B.Com., Ph.D. (v. p. 10), M.D., or Ch.M.

In the B.Com. courses one third of the student's time may, if he chooses, be devoted to work in Applied Science.

The B.Sc. with Honours in Maths. or Chem. requires 3 yrs. after the Intermediate standard has been reached. The B.Sc. courses in Engineering cover 4 yrs. Those in Mining involve practical work underground. Graduates of Oxford who have obtained the Ox. Dipl. in Scientific Engin. and Mining are eligible, subject to certain provisos, for the B.Sc. in Engin., Mining, or Metall. after 2 yrs. study in Birmingham.

Med. students may spend their 5th yr. at any school or schools of Med. recognized by the Univ., and the Senate may recognize examns. passed therein as exempting from the 1st Med. examn. They may obtain the B.Sc. as well as their Med. degree by devoting 6 yrs. instead of 5 to study in the Univ.

Candidates for the B.Mus. must have passed the matricn. or an equivalent examn. and an examn. in the Rudiments of Music.

The M.A., M.Com., and M.Sc. involve at least 1 yr. of study after completing the course for the bachelorship.

The D.Phil. or D.Litt., M.Mus., and D.Sc. may be taken 3 yrs. after the M.A., B.Mus., or M.Sc.

DIPLOMAS. *Art* Instructor's (2 yrs. course), for students of the Municipal School of Art; *Brewing* (3 yrs. course), Brewing Special for graduates (1 yr.);

Graduates' *Commerce* (1 yr. course), open to graduates of any Univ. who have passed an adequate test in accounting; *Mining*; *Social Study* (1 yr. or, Higher Dipl., 2 yrs. course preparatory for public administration, charity organization, factory welfare, trade union official work, etc.); Secondary, Primary, or Continuation School *Teachers'* (1 yr. course), for graduates of a Univ. of the U.K. or others equally qualified.

FEES. Matricn., £2. Tuition for B.A., £24 : 10s. p.a.; B.Sc., £35 p.a.; Engin., 4 yrs. course, £232 : 10s.; Mining, 3 yrs., £155; Metall., 3 yrs., £137 : 10s.; Med., 5 yrs., £176, including Hospl. fees, £62 : 10s. Examns., Interm. and Final, for first degree £10, except in Med., £20, and Engin., £12 : 10s. Laboratory research fees average about £30 p.a.

SCHOLARSHIPS for advanced students. Walter Myers (Travelling), £150 for 1 yr., renewable, for research in Path. or Clin. Med., open to graduates in Med. and Surg. of Birm. (who have also obtained the B.Sc.), London, Ox., or Camb.; 10 Scientific Research, tenable for 1 yr. (6 of £96 and 4 of £50 each), are offered annually.

RESIDENCE. For women there is a Hostel—Univ. House, Edgbaston Park Rd. (Warden), with grounds of 2¾ acres. Men students reside in lodgings. The cost of board and lodging is from £2 : 10s. upwards a week.

UNIVERSITY EXTENSION work includes Lectures and Tutorial Classes in the city and neighbouring towns.

PUBLICATIONS. *Calendar* (Oct.), 2s.; Sectional Prospectuses (June); students' magazine, *The Mermaid*, 1s.

THE YEAR 1919–20

BENEFACTIONS. During the latter part of the academic year the Univ. organized an appeal for £500,000 to make it possible to carry on its work. The appeal was not formally launched until Oct. 8, 1920, but at the meeting in the Town Hall presided over by the Lord Mayor of Birmingham, it was announced that over £200,000 had already been secured or promised. One of the main objects of the appeal is to extinguish the debt of £130,000 which has long crippled the Univ.'s resources.

BUILDINGS. Five large army huts were put up at a cost of £15,000; 3 of these provide a very useful extension of the chemical laboratories, 2 are for the Dept. of Physics. The Faculty of Commerce was removed from Edmund St. to Edgbaston, and the rooms vacated at the former will be reconstructed as an addition to the Univ. Library, which is urgently needed. The accommodation for the Faculty of Medicine has been enlarged and improved. Important reconstruction and redistribution are being carried out in the depts. of Applied Science. These affect chiefly Metallurgy, Geology, Mechanical Engineering, and Mining. They have resulted in giving better and extended accommodation, and in enabling new plant and apparatus to be installed.

NEW DEPARTMENTS, ETC. The whole depart. of Mining has been reorganized, and will be extended still further, in consequence of a larger endowment for this purpose having been obtained. *Coal Mining and Petroleum Technology* have been differentiated under Asst. Profs. of each respectively, supervised under the general control of the Prof. of Mining. The result will be that, apart from the Coal Mining dept. proper, the Univ. will have a special dept. for the training of Engineers in Petroleum Mining, equipped with all the

latest apparatus, and conducted by an expert staff. The dept. will remain under the general control of Prof. Sir J. Cadman, K.C.M.G. This will be the first of British Univs. specially to organize this branch of Mining work. Owing to the special endowment for this purpose at its disposal and the immense field of employment that the industry has before it, the imperial significance of this development will be marked.

Professorial Chairs in Italian and Russian Languages and Literature will shortly be instituted.

OTHER IMPORTANT CHANGES. In the Faculty of Science subordinate Boards of Studies under the Faculty have been formed to deal with Math., Engin., Chem., Physical, and Biological studies. An Industrial Certificate class has been instituted under the control of a joint board of Univ. and Trade Union representatives. This class provides two full days' instruction to members of Trade Unions, nominated by their Unions, in English Literature, Modern History, Economics, and Elementary Science. The work is organized by a special tutor, appointed and paid by the Univ. The class is held in all three terms of the Univ. session, and at the end an Industrial certificate is awarded after examn. The class is a new departure, as it is not based on the principle of evening work but on full-time day work, and the instruction is provided by members of the Univ. Staff.

Two new degrees have been instituted—M.A. in Educn. and M.A. in Music. A new Honour School in Mathematics has been created, and an Honour School in Music will shortly be established.

Mr. C. Grant Robertson, M.A., C.V.O., Fellow of All Souls College, Oxford, was appointed Principal on Jan. 21, 1920, in succession to Sir Oliver Lodge.

NUMBER OF STUDENTS. Preparing for degrees—in Science, 635; Arts, 282; Med., 227; Commerce, 126; preparing for diplomas—in Arts, 258; other faculties, 235; research and post-graduate students—in Science, 35; Arts, 19; Med. 29; occasional—in Science, 44; others, 48. Total full-time students, 1754, including 499 women; part-time, 183. Total in 1917–18 and 1918–19—714, 971 (women, 410, 282). Students attending Tutorial classes (W.E.A.)—in Econ., 19; Sociol., 14; Lit., 57; Engl. Hist., 15; Industrial Hist., 57. Preparatory classes in—Lit., 21; Nat. Sc., 15; Soc. Philos., 20; Econ., 54; Civics, 54; Trade Union Problems, 32; Loc. Govt., 26; Indust. Hist., 39. New entries, session 1920–21, Science, pure and applied, including Educn., 313; Arts, including Music and Educn., 163; Commerce, 66; Social Study and Indust. Certif., 38; Med. and Dent., 141 (20 women). *N.B.*—The part-time classes referred to are day classes mainly concerned with students for Social Studies, Diploma, or Industrial Certificate. Evening classes are not provided by the Univ., this work being left to the Birmingham and Midland Inst., Munic. Tech. Sch., etc.

HONORARY DEGREES CONFERRED (M.A. in Music): Sir E. Elgar, O.M., Sir T. Beecham, Prof. D. F. Tovey.

UNIVERSITY OF BRISTOL

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. VISCOUNT HALDANE OF CLOAN, O.M., K.T., D.C.L., LL.D., F.R.S. (*ex-officio* President of Court, Council, and Convocation).

PRO-CHANCELLORS—Rt. Hon. LEWIS FRY, LL.D.; Rt. Hon. HENRY HOBHOUSE, M.A., LL.D.; G. A. WILLS, LL.D.; H. H. WILLS.

VICE-CHANCELLOR—Sir ISAMBARD OWEN, D.C.L., LL.D., M.D. (*ex officio* Chairman of Senate).

TREASURER—STANLEY H. BADOCK.

REGISTRAR—JAMES RAFTER, M.A.

DIRECTOR OF TRAINING COLLEGES—E. H. COOK, D.Sc.

TUTOR TO THE WOMEN STUDENTS AND WARDEN OF THE UNIV. HALL OF RESIDENCE FOR WOMEN—MAY C. STAVELEY, M.A.

LIBRARIAN—E. SIBREE, M.A.

MEDICAL LIBRARIAN—C. KING RUDGE, M.R.C.S., L.R.C.P.

ASSOCIATED INSTITUTIONS

(In which specialized teaching is given or facilities for research are afforded.)

(1) BRISTOL BAPTIST COLLEGE. *Principal*—W. J. Henderson, LL.D., B.A.

(2) WESTERN COLLEGE, BRISTOL. *Principal*—R. S. Franks, M.A., D.Litt.

(3) THEOLOGICAL COLLEGE, SALISBURY. *Principal*—C. T. Dimont, B.D.

(4) S. BONIFACE COLLEGE, WARMINSTER. *Principal*—J. W. S. Tomlin, M.A.

(5) NATIONAL FRUIT AND CIDER INSTITUTE, LONG ASHTON (v. *infra*, RESEARCH). *Director*—Prof. B. T. P. Barker, M.A.

(6) REDLAND HIGH SCHOOL & COLSTON'S GIRLS' SCHOOL, BRISTOL, for kindergarten training.

N.B.—All members of the Teaching Staffs of (1), (2), (3), (4), and (5) are members of the Teaching Staff of the Univ.

PROFESSORS, LECTURERS, ETC.

[(C.) = Clinical Lecturer; (R.) = Recognized as qualified to instruct undergraduates studying for degrees; (S.) = Special Lecturer.]

Agriculture
Barker, B. T. P, M.A. Camb. (A. Biology) Prof.
Wallace, T (A. Chem.) Lectr.
Wiltshire, S. P., B.Sc. (Mycology) Lectr.
Grove, O. (Œnology) Lectr.
Lees, A. H., M.A. Camb. (Plant Path.) Lectr.
Spinks, G. T. (A. Botany) Lectr.
Tutin, F. (Bio-Chem.) Lectr.
Peren, G. S. (Pomology) Lectr.

Anatomy [Prof.
Fawcett, E., M.D., C.M. Edin.
Stock, W. S. V., M.B., Ch.B., M.B., B.S. Lond, F.R.C.S. Demr.
Llewelyn, Miss G. R., B Sc. Demr.
Adams, W. A., M B., B.S. Lond. Demr.
Czaplicka, Miss M. A. (Anthropology) Lectr.

Arabic, Aramaic, etc. v. Orient.

Art
Wellington, H. L. (S.).

Bio-Chemistry
Nierenstein, M., Ph.D. Berne, D. ès Sc. Gen. Lectr.

Botany
Darbishire, O. V., B.A. Ox., Ph.D. Kiel Prof.
Hunter, C., M.Sc. Durh. Asst. Lectr.
Lee, Miss E. M., M.Sc. Asst. Lectr.
Gilchrist, Miss G., B.Sc. Demr.
White, J. W. (Systematic B.) (S.).
Gardiner, G. F. (Gardening) (R.).

Chemistry, v. also Agric.
Francis, F., D.Sc. Manc., Ph.D. Erl., F.I.C. °A. C. Pass Prof.
Davis, O. C. M., D.Sc. Lond., D.Sc., M.D., Ch.B., F.I.C. (and Demr. in For. Med. and Toxicol.) Lectr
Rixon, F. W., M.Sc. Manc., Ph.D. Gies. Lectr.
Taylor, Millicent, D.Sc Demr.
Fullman, I., B.Sc. Lond. Demr.

Chemistry, Applied, v. Tech.
Chemistry, Hygienic [Lectr.
Russell, E., B.Sc. Lond., F.I.C.

Chemistry, Physical
McBain, J. W., M.A. Tor., Ph.D. Heid. Leverhulme Prof.
Laing, Mary E., M Sc. Research Asst.

Classics [H. O. Wills Prof.
Dobson, J. F., M.A. Camb. (Greek)
Brooks, F., M.A. Ox. Prof.
Pitman, H., M.A. Ox. Lectr.

Dental Mechanics
Wing, J. C., L.D.S. Lectr.

Dental Surgery [Lectr. & (C.).
Ackland, W. R., M.R.C.S., M.D.S.
Wyatt, H. J., L.D.S. (C.).
Nichols, F. C., M.B., Ch.B., L.D.S. (C.).

Dental Surg., Operative
Dowling, E. A. G., M.R.C.S. L.R.C.P., L.D.S. Lectr. & (C.).

Economics
Phillips, H., B.A. Ox. Lectr.

Education
Wodehouse, Helen M., M.A., D.Phil. Birm. Prof.
Pease, Marian F, LL.D. (S.).
Foster, T. S., M.A. Ox. Master of Method (S.).

Mullock, Amy, M.Sc. Manc., M.A. Mistress of Method.

Asst. Lectrs:
Childs, E. C., M.A. Lond.
Carré, M. H., B.A. Ox.
Macdonald, J., M.A. Edin.
Nicholson, J. H., M A. Edin.
Sinclair, Olive W., M.A. Lond.
Morgan, L T., B Sc.
Luery, A E., B.Sc. Lond.
Oakden, Ellen E , M A Birm
Moncrieff, Miss A., M.A.
Shipsey, Kathleen A., B.A., Sc.B. Dub.
Odell, D. Anstace.
Allen, Hilda C
Ward, Mrs. F. W., N.F.U.
Watson, A. J., A.R.C.A. Drawing (R.).
Warfell, A., F.R.C.O. Music (R.).
Carlson, G. Phys. Exerc. (R.).
Pepper, Miss Phys. Exerc. (R).

Engineering v. Tech.

English [Winterstoke Prof.
Crofts, J. E. V., B.A., B Litt. Ox.
Haworth, P., M.A. Manc. Lectr.
Birkhead, Edith, M.A. Asst. Lectr.
McLean, Miss C. M. Asst Lectr.

French, v. also Tech. [Prof.
Boillot, F , M.A. Shef., L. ès L.
Perkins, B. N., M.A. Camb. Lectr.

Geography
Jervis, W. W., M.Sc., F.G.S. Lectr.

Geology
Reynolds, S. H., M.A., Sc.D. Camb. C. Wills Prof.
Turner, H. W., B.A. Ox. Lectr.

German, v. also French
Ord, C., M.A. Camb. Lectr.
Ord, Evelyn Asst. Lectr.

Hebrew v. Orient. Langs.

History
Leonard, G. H., M.A. Camb., M.A. (Modern H.) H. O. Wills Prof.
Staveley, May C., M.A. Dub., M.A. Lectr.
Cooper, W. L., M.A. Ox. Lectr.
Gardner, Alice, M.A. (Byzantine H.) Reader.
MacInnes, C. M., B.A. Dal. Asst. Lectr.
Davies, W. W., M.A. Ox. Asst. Lectr.

Italian
Gualtieri, Signa. E. Lectr.

Law
Wilshere, A. M., M.A., LL.B. Lond. (S.).
Chilton, C. A. (S.).

Mathematics
Hassé, H. R., M.A. Camb., D.Sc. Manc. H. O. Wills Prof.
Todd, H., B.A. Camb. Lectr.
Vint, J., M.A Belf. Lectr.

Maths., Applied
Boulton, E. S., M.A., B.Sc. Prof.

Maths., Pure
Fraser, P., M.A. Camb., B.Sc. Aberd. Lectr.

Medicine v. *infra*

Mining v. Engin.

Music
Bucknall, C., Mus.B. Ox. (S.).

Oriental Languages
Sibree, E., M.A. Ox. Lectr.
Segall, J. (Arabic) (S.).
O'Leary, De L., M.A., D.D. Dub. (Aramaic, Syriac, and Hel. Gk.) (S.).
Polack, J., B.A. Lond. (Hebrew) (S.).

Palæontology
Bolton, H., M.Sc. Reader.

Philosophy
Broad, C. D., M.A., Litt.D. Camb. Prof.

Physics, v. also Chem.
Tyndall, A. M., D.Sc. Lond., D.Sc. H. O. Wills Prof.

Williams, Illtyd, M.Sc. Wales Lectr.
..... Lectr.
Hughes, H. G., B.Sc. Asst. Lectr.
Jolin, Dorothy E., B.Sc. Demr.

Physiology
Buckmaster, G. A., M.A., M.D., B.Ch., D.P.H. Ox. H. O. Wills Prof.
Short, A. R., B.Sc., M.D., B.S. Lond., F.R.C.S. Lectr.
Hickman, H. R. B., B.M. Ox. Demr.
Rowell, Miriam Demr.
Bywater, H., D.Sc. Lond. and Brus., Ph.D. Würz. (General Metabolism) (S.).

Public Health
Davies, D. S., M.D. Lond., LL.D., D.P.H. Lectr.
Heaven, J. C., M.R.C.S., D.P.H. Demr.
Fortescue-Brickdale, J. M., M.A., M.D. Dir. of P.H. Lab.

Technology v. *infra*

Theological Subjects
Henderson, W. J., B.A. Lond., LL.D.
Robinson, F. E., B.A., B.D. Lond.
Franks, R. S., M.A. Camb., D.Litt. Ox
Macey, T. S., B.A. Lond.
Dimont, C. T., B.D. Ox.
Bellars, A. R., M.A. Ox.
Higgins, H. L., M.A. Ox.
Wand, J. W. C., M.A. Ox.
Prideaux, S. P. T., D.D. Ox.
Walter, W. L., M.A Camb., Lond., & Kiel.
Tomlin, J. W. S., M.A. Ox.
Palgrave, F M. T., M.A. Ox.

Zoology [Lectr.
Henderson, W. D., M.A., B.Sc. Aberd., Ph.D. Freib. i/B.
Henderson, Mrs. I. F., M.A. Aberd. Asst. Lectr.

Medicine (v. also Pub. Health)

Anæsthetics [(C.).
Freeman, J., M.D. Durh., F.R.C.S.
Flemming, A. L., M.B., Ch.B. (C.).
Hill, Hedley, M.D. Durh. (C.).

Bacteriology v. Pathology

Diseases of the Skin
Wills, W. K., M.A., M.B., B.Ch. Camb. (C.).
Nixon, J. A., C.M.G., B.A., M.D. Camb., F.R.C.P. (and in Med.) (C.).

Fevers
Peters, B. A., M.D., B.Ch., D.P.H. Camb (C.).

Forensic Med., etc., v. also Chem.
Parker, G., M.A., M.D. Camb. (Clin. Lectr. in Med. and Elect. Diag.) Lectr.*

Laryng., Rhin., and Otology
Watson-Williams, P., M.D. Lond. Lectr. and (C.).*

Laryng. and Rhinology
Wright, A. J. M., M.B., B.S. Lond., M.B., Ch.B., F.R C.S. (C.).

Medicine, v. also Obst.
Edgeworth, F. H., M.A., M.D., B.Ch. Camb., D.Sc. Lond. Prof. & (C.).
Symes, J. O., M.D. Lond., D.P.H. (C.).
Coombs, C. F., M.D., B S. Lond., F.R.C.P. (C.).
Charles, J. R., M.A., M.D. Camb., F.R.C.P. (C.).
Fortescue-Brickdale, J. M., M.A., M.D., B.Ch. Ox. (C.).
Clarke, R. C., M.B., Ch.B. (C.).

Medicine and Surgery
Clarke, C., M.D., B.S. Lond. [(R.).
Chitty, H., M.S. Lond., F.R.C.S.
Herapath, C. E. K., M.D., B.S. Lond. (R.).

* Head of Dept.

Mental Diseases [Lectr.
Blachford, J. V., M.D. Durh. (C.).

Obstetrics
Swayne, W. C., M.D., B.S. Lond., M.D., Ch.B. Prof. & (C.).
Rayner, D. C., F.R.C.S. Lectr. & (C.).
Statham, R. S. S., M.B., Ch.B., (C.) in Med. Demr.
Harty, P. J., M.B., B.S. R.U.I. (C.).
Newnham, W. H. C., M.A., M.B. Camb. (C.).

Obstetrics and Ophthalmology
Baker, Lily, M.B., B.S. Lond. Demr. in Obst.

Ophthalmology
Walker, C. H., B.A., M.B. Camb., F.R.C.S. Lectr. & (C.).*
Cross, F. R., M.B. Lond., LL.D., F.R.C.S. (C.) (S.).
Stack, E. H. E., M.B., B.Ch. Camb., F.R.C.S. (C.).

Pathology [Prof.
Hall, I. W., M.D., Ch.B Manc.

Path. and Bacteriology
Tilsey, G. E., M.R.C.S., L.R.C.P. Demr.
Kay-Mouat, J. R., M.A. Ox., M.B., Ch.B., D.P.H. Demr.

Pharmacology and Therap.
Neild, N., M.B., Ch.B. Manc. (and (C.) Med.) Lectr.*

Pharmacy (Practical)
Taylor, A. L., M.P.S. (R.).
Thomas, Wm., M.P.S. (R.).

Skiagraphy (C.).
Mayes, F. J. A., M.R.C.S., L.R.C.P.
Bergin, F. G., M.R.C.S., L.R.C.P. (C.).

Surgery [Prof. & (C.).
Morton, C. A., F.R.C.S.
Swain, J., C.B., M.D., M.S. Lond., F.R.C.S. (C.).
Firth, J. L., M.D., M.S. Lond., F.R.C.S. (and in Otol.) (C.).
Carwardine, T., M.B., M.S. Lond., F.R.C.S. (C.).
Chitty, H., M.B., M.S. Lond. F.R.C.S. (C.).
Groves, E. W. H., M.D., M.S., B.Sc. Lond., F.R.C.S. (C.).
Walters, C. F., F.R.C.S. (C.).
Moore, C. A., M.S., M.B. Lond., Ch.M., F.R.C.S. (C.).
Short, A. R., B.Sc., M.D., B.S. Lond., F.R.C.S. (C.).

Operative Surgery
Bush, J. P., C.M.G., Ch.M. Lectr.*

Practical Surg.
Lansdown, R. G. P., M.D., B.S. Lond. Lectr. & (C.).*

Technology

(In the Technical College of the Society of Merchant Venturers)

Applied Chemistry
Wertheimer, J., B.A. Lond., D.Sc., F.I.C. Prof.
Borland, H. A. M., M.Sc. Lectr.
Marsden, A., A.I.C. Asst. Lectr.

Automobile Engineering
Morgan, W., B.Sc., M.I.A.E. Prof.

Civil Engineering
Ferrier, R. M., M.Sc. Glas., M.I.C.E., M.I.M.E. Prof.
Francis, W. E., B.Sc. Lectr.
Warlow, W. P., B.Sc. Lond. and Bris. Asst. Lectr.

Engineering Comml. Subjects
Griffin, A. Lectr.

Electrical Engineering [Prof.
Robertson, D., D.Sc., M.I.E.E.
Holmes, Stratton, A.M.I.E.E. Lectr.

Mech. and Mining Engineering

Robertson, A., D.Sc. Prof.
Watson, F. R. B., B.Sc., Lectr. (Mech. E.).
Stephens, G. A., B Sc. Lectr. (Mech. E.).

Chem. for Engin. Students

Pophan, F. J. W. (R.).

French and German for Engin. Students

Shepherd, Dorothy B. Asst. Lectr.

Maths. and Physics for Engin. Students

Pickering, A., B.Sc. (R.).
Smith, A., B.Sc. (R.).
Stockall, G. E., B.Sc. (R.).
Palmer, L S., M.Sc. (R.).
Banfield, A. D., B.Sc. (R.).

Physics for Engin. Students

Shorney, A B., B Sc. Asst Lectr.
Baker, A V., B.Sc. (R.).
Palmer, W. P., B.Sc (R.).
Morgan, C. E. (R).

GENERAL INFORMATION

University College, Bristol, founded in 1876, was dissolved in 1909 on the incorporation by Royal Charter of the Univ. of Bristol. The main buildings, including a large extension estimated to cost £250,000, temporarily stopped by the war, but now being proceeded with, and other projected additions, when complete, will cover a site of 16 acres near the centre of the city on high ground adjoining residential districts. The Municipal Museum and Art Gallery adjoin.

The TECHNICAL COLLEGE OF THE SOCIETY OF MERCHANT VENTURERS provides accommodation for and maintains the Faculty of Engineering of the University. Dean of the Faculty—Prof. J. Wertheimer, B.A., D.Sc., F.I.C.

LIBRARIES, 42,000 vols. LABORATORIES: Scientific, Medical, and Engineering, all equipped for purposes of research. Agri-Horticultural station at Long Ashton with Expl. fruit plantations 268 acres devoted to research in fruit-culture, cider-making, plant diseases and their treatment, etc. Hospitals available for clinical study, 2 General (634 beds), Children and Women (108), Eye (40).

MATRICULATION. In common with all other English Univs., Bristol holds School and Higher School Certificate Examns., at which candidates may qualify for matricn. It also recognizes, subject to certain conditions, School Certifs. and Higher School Certifs. approved as such by the Bd. of Educn., Senior and Higher Certifs. of the Central Welsh Board, Scottish Leaving Certif. in Higher or Honours grade, Special Army Educn. Certif., Matricn. Examn. of any Univ. of the U.K., Responsions of Oxford, Previous Examn. of Cambridge, and graduation in any approved Univ., as qualifying for matricn. The Senate may also declare eligible for matricn. a candidate educated outside the U.K. on proof of having passed equivalent examns., or, if from an Oriental country, of sufficient education and ability to follow instruction given in English.

DEGREE COURSES. B.A., B.Sc., B.Sc. in Engineering—3 yrs., including at least 2 in the Univ.; Honours in Arts and Pure Science—4 yrs., except for those who enter with Higher School Certif.; on an evening class curriculum—6 yrs. (Engineering 5 yrs.); by research in case of a graduate of another Univ.—2 yrs.; "Sandwich" Scheme of Training for Engineers, including 30 mos. in works—5 yrs. M.B., Ch.B.—5½., B.D.S.—5 yrs., or, for those who

enter with Higher School Certifs. in Physics, Chem., Biol. (Dental-Biol. or Zool.), M.B., Ch.B.—4½, B.D.S.—4 yrs., including at least 3 in the Univ.

Instruction given in Theological subjects in the Associated Colleges to undergraduates of the Univ. by the Principal or teachers mentioned above is, for the purpose of the B.A. degree, deemed to be given in and by the Univ.

HIGHER DEGREES. M.A., D.Litt.; M.Sc., D.Sc. (in Pure Sc. or Engineering); Ch.M., M.D.; Ph.D. (see p. 10). Graduates of other Univs. are placed practically on the same footing as graduates of Bristol as far as regards facilities for proceeding to all these except the Medical Degrees. Candidates who graduate with Honours in Science may take the M.Sc., one yr. later. Otherwise the Mastership is not granted within 2 yrs. after graduating. The M.D. may be taken 2 yrs. after graduating in Med., the D.Litt. 4 yrs. after the M.A., and the D.Sc. 3 yrs. (2, if devoted to original work in the Univ.) after the M.Sc.

DIPLOMAS. Education (post-graduate) 1 yr., L.D.S. 4 yrs., D.P.H. (for fully registered medical practitioners of 1 yr's. standing), D.V.S.M. (for M.R.C.V.S. of 1 yr.'s standing).

CERTIFICATES. Engineering, 3 yrs. (or evening classes 5 yrs.); Testamurs in Social Study 2 yrs.; Journalism, 3 yrs.; or, if qualified for matricn. 1 yr.; Engineering Apprentices, 2 yrs.

FEES. Matricn., 3 gs.; Registration, £1 : 10s.; Tuition, annual, B.A., 24 (Theol. students, 20) gs.; B.Sc., 27 gs.; B.Sc. in Engin., 40 gs. (Lab. practice, 4 gs. per term for one day a week); M.B., Ch.B., entire curriculum, 162 gs.; B.D.S., including mech. lab. and hospl. practice, 180 gs.; Degree examns., B.A. or B.Sc., 9½ gs.; Med., 24 gs.; Dent., 25 gs.; M.A. and M.Sc., 7 gs.; Ph.D., 9 gs.; others, 17 gs.; *Testamur* in Social Study, 2 yrs., 14½ gs.; Journalism, for each of 3 parts, 6 gs.

SCHOLARSHIPS FOR GRADUATES. £50 for research in Engin.; £30, women only, for post-graduate course; £35 for Metall. research; several others.

RESIDENCE. Hall for men—£66 p.a.; Clifton Hill House and 5 other residences for women students in training—from 50 gs. p.a.

PUBLICATIONS. Faculty prospectuses issued in July; annual report of Council; Students Mag. *Nonesuch*, 9d.

THE YEAR 1919–20

BENEFACTIONS. George A. Wills, a club-house for students, staff, and graduates, 7½ acres extension of Athletic Ground; Henry H. Wills, £100,000, additional to same amount already given, for building for Dept. of Physics; Ornithological Library of late Dr. J. Wiglesworth; several smaller gifts.

NEW BUILDINGS, ETC. "Royal Fort House" converted into temporary club for men students; Elton House, Hall of Residence; Army huts purchased for temporary accommodation, number of students being twice as great as before war; Elec. Eng. Labs., space doubled; Civ. Eng., enlarged; £11,000 voted for Eng. equipment; 240 acres added to Agric. Station.

NEW POSTS. Lectrs. in Anthrop., Agric. Bot., Bio.-Chem., Comml. Subjects, Geol., Pomology, Maths. (2); Demrs. in Bot. and Chem. (2).

HONORARY DEGREES CONFERRED. LL.D.: Earl Haig, W. A. Adams, G. H. Burkhardt, W. A. Knight.

OTHER DEGREES. B.A., 30, including 23 women; B.Sc., 40 (women, 14); M.B., Ch.B., 6 (1 woman); B.Sc. in Engin., 24; higher degrees, 9.

NUMBER OF STUDENTS. (Day) undergraduates, 774 others, 568; (evening) 1166. Corresponding numbers in 1917–18: 260, 440, 501; in 1918–19: 479, 382, 697. Of the Day students 55 (including 24 women) were graduates—21 in Medicine and 19 taking Diploma in Education; 180 (97 women) were preparing for the B.A.—84 being four-year Training Students; 209 (51 w.) for the B.Sc.—84 being four-year Training Students; 136 (40 w.) for M.B., Ch.B.; 224 for B.Sc. in Engin.; 235 (68 w.) were two-year Training Students; 114 were taking individual courses in Engin. Of the Evening students 1069 were following Engineering courses. 5 Hons. students spent summer term in Strasbourg Univ.

RETIREMENTS, ETC. Profs. C. Lloyd Morgan (succeeded by C. D. Broad from St. Andrews) and J. Swain (Surgery); B. Hodgson, apptd. to Adm. Wireless Research Station; H. Vickers, apptd. Lectr. in El. Eng. in Birm.; J. D. Fry, to work for Rubber Tyre Research Assocn.; D. E. Innes, apptd. Lectr. in Geol., St. And.; Edith Waterfall, apptd. Lectr. in Col. Univ., N.Y.; Eleanor Veitch, apptd. Lectr., Bangor.

INTERCHANGE of Lectrs. in Engl. arranged with Reading.

UNIVERSITY OF CAMBRIDGE

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VICE-CHANCELLOR—P. GILES, Litt.D. Emm.

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DEPUTY HIGH STEWARD—J. F. P. RAWLINSON, K.C., LL.M., Hon. LL.D. Trin.

REPRESENTATIVES IN PARLIAMENT—J. F. P. RAWLINSON, K.C., LL.M., Hon. LL.D. Trin.; Prof. Sir JOSEPH LARMOR, M.A., Hon. Sc.D. Joh.

PROCTORS—C. R. FAY, M.A. Chr.; J. T. SPITTLE, O.B.E., M.A. Pemb.

PUBLIC ORATOR—T. R. GLOVER, M.A. Joh.

REGISTRARY—J. N. KEYNES, Sc.D. Pemb.

LIBRARIAN—F. J. H. JENKINSON, M.A. Trin.

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CLARE	,,	W. L. MOLLISON, LL.D.
CORPUS CHRISTI	,,	E. C. PEARCE, D.D.
DOWNING	,,	Prof. A. C. SEWARD, M.A.
EMMANUEL	,,	P. GILES, Litt.D.
GONVILLE AND CAIUS	,,	H. K. ANDERSON, M.D.
JESUS	,,	A. GRAY, M.A.
KING'S	*Provost*	Sir W. DURNFORD, G.B.E., LL.D.
MAGDALENE	*Master*	A. C. BENSON, C.V.O., LL.D.
PEMBROKE	,,	W. S. HADLEY, LL.D.
PETERHOUSE	,,	Sir A. W. WARD, Litt.D.
QUEENS'	*President*	T. C. FITZPATRICK, D.D.
ST. CATHARINE'S	*Master*	Rt. Rev. T. W. DRURY, D.D.
ST. JOHN'S	,,	R. F. SCOTT, M.A.
SIDNEY SUSSEX	,,	G. A. WEEKES, M.A.
TRINITY	,,	Sir J. J. THOMSON, O.M., M.A., Hon. Sc.D.
TRINITY HALL	,,	H. BOND, LL.D.
SELWYN (Public Hostel)	,,	J. O. F. MURRAY, D.D.
FITZWILLIAM HALL (Non-Collegiate Students)	*Censor*	W. F. REDDAWAY, M.A. King's.

RECOGNIZED COLLEGES FOR WOMEN

GIRTON	*Mistress*	Miss K. JEX-BLAKE, M.A. Dub.
NEWNHAM	*Principal*	Miss B. A. CLOUGH.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. also Estate Management, Forestry
Wood, T. B., C.B.E., M.A. Cai. Drapers Prof.
Mackenzie, K. J. J., M.A. Chr. Reader.
Fay, C. R., M.A. Chr. Gilbey Lectr.
Amos, A., M.A., Down. Lectr.
Barber, C. A , Sc D. Chr. Lectr. in Tropical A.

Agric. Botany
Biffen, R. H., M.A. Cath. Prof.

Agric. Physiology [Reader.
Marshall, F. H. A., Sc.D. Chr.

Anatomy, v. also Zool.
Wilson, J. T., M.A. Joh. Prof.
Duckworth, W. L. H., M.D., Sc.D. Jes. (Phys. Anthrop. and Human Embryology) Reader.
Appleton, A. B., M.A. Down Senr. Demr.
Reid, D. G., M.A. Trin. Junr. Demr.
Hopkinson, A., M.A., M.B., B.Ch. Emm. Addl. Demr.
..... (Advanced) Lectr.

Anglo-Saxon
Chadwick, H. M., M.A. Clare Elrington and Bosworth Prof.

Anthropology, v. also Anat., Et.
..... Frazer Lectr.

Arabic v. Oriental

Archæology [Disney Prof.
Ridgeway, Sir Wm., Sc.D. Cai.
(v. also Class. A. and Palæog.)

Art [Slade Prof. of Fine Art.
Prior, E. S., M A. Cai.

Astronomy [Plumian Prof.
Eddington, A. S., M.A Trin.

Astron. & Geom. [Lowndean Prof.
Baker, H. F., Sc.D. Joh.

Astrophysics, v. also Meteor.
Newall, H. F., M.A. Trin. (Dir. of Solar Phys. Obs.) Prof.
Milne, E. A., B.A. Trin. Asst. Dir.
Stratton, F. J. M., M.A. Cai. Lectr.
Wilson, C. T. R , M A. Sid. Obs. in Meteorological Phys.
Baxandall, F. E., A.R.C.Sc. Solar Physics Observer.
Butler, C. P., A.R.C.Sc. Solar Physics Observer.
Rolston, W. E. Solar Phys. Obs.
Moss, W. Solar Physics Observer.

Bibliography
..... Sandars Reader.

Bio-Chemistry [Prof.
Hopkins, F. G., M.A. Trin. (also Reader in Chem. Physiol.)
Peters, R. A., M.D. Cai. Senr. Demr.

Biology [Quick Prof.
Nuttall, G. H. F., Sc.D. Magd.
Keilin, D., B.A. Magd. Asst.
Brindley, H. H., M.A. Joh. (Elem. B.) Demr.

Botany, v. also Agric.
Seward, A. C., M.A. Down. Prof.
Blackman, F. F., M.A. Joh. Reader.
Tansley, A. G., M.A. Trin. Lectr.
Brooks, F. T., M.A. Emm. Lectr.

Wadham, S. M., M.A. Chr. Senr. Demr.
Holttum, R. E., B.A. Joh. Junr. Demr.
Briggs, G. E , M.A. Joh. (Plant Physiol.) Demr.

Chemistry, v. also Bio- and Phys. C.
Pope, Sir Wm. J., K.B.E., M.A. Sid. Prof.
Vernon, R H., Ph.D. Zurich, Cai. Asst. to Prof.
Fenton, H. J. H., Sc.D. Chr. Lectr. and Demr.
Dootson, F. W., M.A. Trin. H. Lectr. and Addl. Demr.
McCombie, H., M.A. King's Addl. Demr.
Palmer, W. G., M.A. Joh. Addl. Demr.

Chemistry, Organic
Mills, W. H., M.A. Jes. Lectr.

Chem. and Phys. for Hygiene, etc.
Purvis, J. E., M.A. Corp. Lectr.

Classical Archæology
Cook, A. B., M.A Qu. Reader.

Classics, Epigraphy, and Dialects
Campbell, S. G., M.A. Chr. Lectr.

Classics
Ridgeway, Prof. Sir Wm., Sc.D. Cai. (Archæol.) Brereton Reader.
Jackson, Henry, O.M., Litt.D. Trin. (Greek) Reg. Prof.
Housman, A. E., M.A. Trin. (Latin) Kennedy Prof.

Divinity, v. also Orient. Langs., Religion [Ely Prof.
Brooke, A. E., D.D. King's
Barnes, W. E., D.D. Pet. Hulsean Prof.
Bethune-Baker, J. F., D.D. Pemb. Lady Margaret's Prof.
Burkitt, F. C., D.D. Trin. Norrisian Prof.
Stanton, V. H., D.D. Trin. Reg. Prof.
Whitney, J. P., D.D. Emm. (Eccles. Hist.) Dixie Prof.
Inge, Very Rev. W. R., D.D. Jes. (Past. Theol) Lectr

Economics, v. also Geog., Geol., Pol. Econ. [Girdlers' Lectr.
Lavington, F., M.A Emm.
Henderson, H. D., M.A. Cla. Lectr.

Education
Fox, C., M A. Chr. Lectr.*

Engineering v. *infra*

English
Coulton, G. G., M.A. Joh. Lectr.

English Lit. [K. Ed. VII. Prof.
Quiller-Couch, Sir A. T., M.A. Jes.

Estate Management
Smith, F. B., C.M.G., M.A. Down. Reader.

Ethnology
Haddon, A. C., Sc.D. Chr. Reader.

Forestry
Dawson, W., M.A. Cai. Reader.
Stone, H. Lectr.
..... (Indian F.) Teacher.†

French [Drapers Prof.
Prior, O. H. P., M.A. Joh.

Genetics [Arthur Balfour Prof.
Punnett, R. C., M.A. Cai.

Geography, v. also Surv.
Lake, P., M.A. Joh. Reader.

Geog., Historical and Econ.
Oldham, H. Y., M.A. King's Lectr.

Geog., Regional and Physical
..... R.G.S. Lectr.

* Apptd. by Teachers' Training Syndicate.

Geology, v. also Mineral., Palæozool., Petrol.
Marr, J. E., Sc.D. Joh. Woodwardian Prof.
King, W. B. R., O.B.E., M.A. Jes. Asst.
Nicholas, T. C., O.B.E., M.A. Trin. Demr.
Rastall, R. H., M.A. Chr. (Econ. G.) Lectr.

German [Schröder Prof.
Breul, K., Litt.D. King's
Bullough, E., M.A. Cai. Lectr.

Hebrew v. Oriental

History, Ancient
Reid, J. S., Litt.D. Cai. Prof.
Glover, T. R., M.A. Joh. Lectr.

History, Eccl. v. Div.

History, Indian [Lectr.*
Moriarty, G. P., M.A. Pemb.

History, Modern
Bury, J. B., M.A. King's Reg. Prof.
Temperley, H. W. V., O.B.E., M.A. Pet. Reader.

History, Naval
Rose, J. H., Litt.D. Chr., Vere Harmsworth Prof.

Hygiene v. Med.

Italian
Okey, T., M.A. Prof.
..... Teacher.†

Law [Downing Prof.
Hazeltine, H. D., Litt.D. Down.

Law, Civil [Reg. Prof.
Buckland, W. W., M.A. Cai.

Law, English [Reader.
Hollond, H. A., O.B.E., M.A. Trin.

Law, Indian
Macleod, R. H., M.A. Cai. Lectr.*

Law, Internat.
Higgins, A. Pearce, C.B.E., LL.D. Down. Whewell Prof.

Literature [Leslie Stephen Lectr.
Mackail, J. W., M.A. Ox.

Logic v. Philos.

Mathematics
Larmor, Sir Joseph, M.A., Hon. Sc.D., Joh., M.P. Lucasian Prof.
Hobson, E. W., Sc.D. Chr. (Pure M.) Sadleirian Prof.
Littlewood, J. E , M.A. Trin. Cayley Lectr.
Berry, A., M.A. King's Lectr.
Bromwich, T. J. I'A., Sc.D. Joh. Lectr.
Grace, J. H., M.A. Pet. Lectr.
Harrison, W. J., M.A. Clare Lectr.
Herman, R. A., M.A. Trin. Lectr.

Medicine and Surgery v. *infra*

Metallurgy [Goldsmiths' Reader.
Heycock, C. T., M.A. King's

Meteorology, Electrical
Wilson, C. T. R., M.A. Sid. Reader.

Military Subjects
..... Lectr.‡

Mineralogy
Lewis, W. J., M.A. Trin. Prof
Hutchinson, A , O.B.E., M.A. Pemb. Demr.

Music
Stanford, Sir Charles V., Mus.D. Trin. Prof
Wood, C., Mus.D. Cai. (Harmony and Counterpoint) Lectr.

Oriental Langs. v. *infra*

Palæography, v. also Bibliog.
Minns, E. H., Litt.D. Pemb. Lectr.

* Apptd. by Spl. Board of I.C.S. Studies.
† Apptd. by Spl. Board for Med. and Mod. Langs.
‡ Apptd. by Board of Military Studies.

Palæozoology
Woods, H., M.A. Joh. Lectr.

Petrology
Harker, A., M.A. Joh. Reader.
Wordie, J. M., M.A. Joh. Demr.

Philology, Comparative
Giles, P., Litt.D. Emm. Reader.

**Philosophy*, v. also Psych., Religion

Philos., Mental, and Logic
Ward, J., Sc.D., Hon LL.D. Trin. Prof.
Moore, G. E., Litt.D. Trin. (Moral Science) Lectr.
Johnson, W. E., M.A. King's (Moral Science) Sidgwick Lectr.

Philos., Moral
Sorley, W. R., Litt.D. King's Knightbridge Prof.

Physical Chem.
Lowry, T. M., C.B.E., M.A Prof.
..... H. O. Jones Lectr.

Physics, v. also Chem.
Thomson, Sir J. J., O.M., M.A., Hon Sc.D. Trin. Prof.

Physics, Experimental
Rutherford, Sir E., M.A. Trin. Cavendish Prof.
Dewar, Sir James, M.A. Pet. (Nat. Philos.) Jacksonian Prof.
Searle, G. F. C., Sc.D. Pet. Lectr. & Demr.
Wood, A., M.A. Emm. Lectr.
Thirkill, H., M.A. Clare Demr.
Bedford, T. G., M.A. Sid. Addl. Demr.
Crowther, J. A., Sc.D. Joh. Asst. Demr.
Appleton, E. V., M.A. Joh. Asst. Demr.
Mills, W. H., M.A. Jes. Demr. to Jackson. Prof.

Physiology, v. also Agric., Bio-Chem.
Langley, J. N., Sc.D. Trin. Prof.
Hardy, W. B., M.A. Cai. Lectr.
..... Lectr.
Barcroft, J., C.B.E., M.A. King's Reader.
Adrian, E. D., M.A., M.D. Trin. Lectr.
Roberts, Ff., M.D. Clare Junr. Demr.
Thacker, C. R. A., M.D. Sid. Addl. Demr.
Parsons, T. R., B.A. Sid. Addl. Demr.

Physiology, Advanced
Shore, L. E., O.B.E., M.A., M.D. Joh. Lectr.

Physiol. of the Senses
Hartridge, H., M.D. King's (also Senr. Demr. in P.) Lectr.

Political Economy, v. also Econ.
Pigou, A. C., M.A. King's Prof.

Portuguese v Spanish

Psychology, Exper.
Myers. C. S., C.B.E., M.D., Sc.D. Cai. (Dir. of the Psych. Lab.) [Reader
Bartlett, F. C., M.A. Joh. Asst.
Lowson, J. P., M.A. Demr.

Religion, Philosophy of
Oman, J. W., M.A. Qu. Lectr.

Romance [Reader.
Braunholtz, E. G. W., M.A. King's

Russian
Goudy, A. P., M.A. Clare Lectr.

Sanskrit v. Oriental

Spanish [Reader.
Kirkpatrick, F. A., M.A. Trin.
..... Teacher.*
Young, G., M.V.O. Norman Maccoll Lectr. in Span. and Port.

* Apptd. by Spl. Board for Med. and Mod. Langs.

Statistics [Lectr.
Yule, G. Udny, C.B.E., M.A. Joh.

Surveying and Cartography
Debenham, F., O.B.E., B.A. Cai. R.G.S. Lectr.

Zoology and Comp. Anat., v. also Med. Entom., Palæoz.
Gardiner, J. S., M.A. Cai. Prof.

Zoology
..... Reader.
Borradaile, L. A., M.A. Selw. Lectr.
Browne, F. Balfour, M.A. Cai. Lectr.
Potts, F. A., M.A. Trin H. (Demr. of Comp. Anat.) Lectr.

Morph. of Vertebrates
Gadow, H., M.A. King's Reader.

Animal Morphology
Saunders, J. T., M.A. Chr. Demr.

Comparative Anatomy
Gray J., M.A. King's Demr.

Engineering

Aeronautical Engineering
Jones, B. M., A.F.C., M.A. Emm. F. Mond Prof.

Electrical Engineering
Lamb, C. G., M.A. Clare Lectr.

Mechanism and Appl. Mechanics
Inglis, C. E., O.B.E., M.A. King's Prof.
Peake, A. H., M.A. Joh. Senr. Demr.
Peel, T., M.A. Magd. Demr.
Womersley, W. D., M.A. Emm. Demr.

Mechanical Engineering
Landon, J. W., M.A. Cla. Lectr.

Thermodynamics
Lees, S., M.A. Joh. Hopkinson Lectr.

Medicine

Hygiene, v. also Chem. [Lectr.
Graham-Smith, G. S., M.D. Pemb.

Medical Chemistry
Cole, S. W., M.A. Trin. Lectr.

Medical Entomology
Warburton, C., M.A. Chr. Demr.

Medical Jurisprudence
..... Lectr.

Medical Radiology & Electrology
Scales, F. Shillington, M.D. Jes. Lectr.

Medicine [Downing Prof.
Bradbury, J. B., M.D. Down.
Jones, E. Lloyd-, M.D. Down. Demr.
Cow, D. V., M.D. Trin. Asst. to Prof. of Med.

Pathology
Woodhead, Sir G. Sims, K.B.E., M.A. Trin. H. Prof.
Cobbett, L., M.D. Trin. Lectr.
Drury, A. N., M.D., B.Ch. Cai. Demr.
Swann, M. B. R., M.A. Cai. Demr.

Pathology, Special
Strangeways, T. S. P., M.A. Joh. Huddersfield Lectr.

Path. Chem.
Marrack, J. R., M.B. Joh. Lectr.

Pharmacology
Dixon, W. E., M.A. Down. Reader.

Physic
Allbutt, Rt. Hon. Sir T. Clifford, K.C.B., M.D., Hon. LL.D. Caius Reg. Prof.

Surgery
..... Prof.
Roderick, H. B., O.B.E., M.D., M.Ch. Emm. Demr.

Vaccination [Teacher.
Deighton, F., M.A., M.B. Pet.

Oriental Languages

Arabic [Sir T. Adams' Prof.
Browne, E. G., M.A., M.B. Pemb.
Bevan, A. A., M.A. Trin.
Lord Almoner's Prof.
Shaykh 'Alí Majzúb Lectr.*

Aramaic
McLean, N., M.A. Chr. Lectr.

Bengali [Lectr.*
.....

Burmese
Goss, L. A., M.A. Emm. Lectr.*

Chinese
Giles, H. A., M.A. Trin. Prof.

Hebrew [Reg. Prof.
Kennett, R. H., D.D. Qu.

Hindustani
Phillott, Lieut.-Col. D. C., M.A. Cai. Lectr.†

Marathi
Moore, R. A. Leslie, Pet. Lectr.†

Persian [Lectr.
Nicholson, R. A., Litt.D. Trin.
Mírzá Ẓabíhu 'lláh Bihrúz Lectr.

Sanskrit
Rapson, E. J., M.A. Joh. Prof.
Rouse, W. H. D., Litt.D. Chr. Lectr.†

Talmudic
Abrahams, I., M.A. Chr. Reader.

Tamil
Wyatt, J. L. M.A., Chr. Lectr.†

Turkish [Lectr.*
Shaykh 'Abdu 'l-Qádir Záfir

* Apptd. by For. Service Students' Committee.
† Apptd. by Special Board of I.C.S. Studies.

THE COLLEGES

[College Lecturers are indicated by the names of subjects in italics.]

CHRIST'S COLLEGE. Founded 1448. Master—Sir A. E. Shipley, G.B.E., Sc.D., F.R.S.

Fellows: Campbell, S. G., M.A., *Classics*; Darwin, C. G., M.A., † *Maths.*; Downs, B. W., M.A., *Med. and Mod. Langs. and Engl.*; Fay, C. R., M.A. †*Econ.*; Grose, S. W., M.A.; Haddon, A. C., Sc.D., F.R.S. (Reader in Ethnol.); Hobson, E. W., Sc.D., F.R.S. (Prof. of Pure Maths.); * McLean, N., M.A., Senior Tutor, † Orient. Langs. and Moral Sciences, *Hebrew*; * Marshall, F. H. A., Sc.D., † Nat. Sc. and Agric.; Mercer, J., M.A., *Maths.*; * Rackham, H., M.A., † I.C.S. Studies, *Classics*; Saunders, J. T., M.A.; Valentine-Richards, A. V., M.A., Dean, *Theol.*; Vines, H. W. C., M.A., M.B., B.Ch., † Med.

Other Lectrs., etc.: Marshall, T. H., B.A. Trin., † Hist.; Porter, H. H., M.A., † Hist.; Rastall, R. H., M.A., *Nat. Sc.*; Wheatcroft, W. H., LL.D., Down, † Law; Wyatt, T. C., M.A., † Mech. Sc.

CLARE COLLEGE. Founded 1326. Master—W. L. Mollison, M.A., LL.D.

Fellows: Carey, G. V., M.A., *Engl.*, Steward; Chadwick, H. M., M.A., Prof. of Anglo-Saxon; Crick, P. C. T., M.A., D.D., Dean, *Theol.*; Forbes, M. D., M.A., *Engl.*, Librarian; Fulford, H. W., M.A.; Harrison, W. J., M.A., *Maths.*; Henderson, H. D., M.A., † *Econ.*; Landon, J. W., M.A., † Engin.; Roberts, Ff., M.A., M.D., † Med.; Thirkill, H., M.A., * *Phys. and Chem.*; Wardale, J. R., M.A., *Classics*; Wilson, G. H. A., M.A., Bursar.

* Tutor. † Director or Supervisor.

Other Lectrs, etc Appleton, E V, M A, † Mineralogy; Brindley, H. H, M.A Joh, *Biol and Zool*; Brooks, F T, M A, † Bot, Hope, J M V., M A, *Philos*; Jordan, W E., M A, † Hist, Wadham, S M, M A, † Agric; Wheatcroft, W. H, M A, LL D., † Law.

CORPUS CHRISTI COLLEGE. Founded 1352 Master—Pearce, E C., D D

Fellows † Butler, Sir Geoffrey, K B E, M A, *Hist.*; Clark-Kennedy, A E, M A, † Med; Goodhart, A L, M A, *Law*; Hoskyns, E. C, M.A, † *Theol*; Morris, G G, M.A, † *Classics*, Moule, C W, M A, President; Pickthorn, K. W M, M.A, † *Hist*; Pollock, C. A E, M A., Bursar, * † Spens, W, C B E, M A, *Nat. Sc*; Thomson, G P, M.A., † *Maths.*

Other Lectrs, etc Momber, R H, M A, † Mod Langs; Stanners, R W, M A, † Econ, Farren, W S, M A, † Mech Sc; Winfield, P H, LL D.; † Law

DOWNING COLLEGE. Founded 1800. Master—Seward, A C, M.A, F R S., Prof. of Botany.

Fellows † Amos, A, M.A., Bursar, Agric Sc.; † Berry, A J, M A, *Chem and Phys*; Bradbury, J B., M D, Prof of Med; † Harris, D L, M A, Reader in *Law*; Hazeltine, H. D, Litt D, Prof of Law, Kenny, C S, LL D. (supernumerary); Saunders, J. C, M A.; † Thomas, H. Hamshaw, M B E, M A, *Bot*; * † Widdicombe, J H, M.A, Dean and Steward, *Physiol*

Other Lectrs and Supervisors Appleton, A. B, M A, *Human Anat*; French, C. H, M A, *Maths.*; Johnson, W. E, M A, *Mor. Sc*; Morris, G. G., M.A, *Class*; Portway, D., M A, *Engin*, Thatcher, W S, M A, *Econ.*; Webb, H A, M A, Trin, *Maths*; Wheatcroft, W H, LL D, *Law*, Wyatt, A J, M A, Chr, *Med and Mod Langs*; Davies, D J, M A, B D, Trin, *Hist*, Sayers, L D, M A, † Biol, Chaplain

EMMANUEL COLLEGE Founded 1584 Master—Giles, Peter, Litt D.

Fellows Allcock, W B, M A, Attenborough, F. L, B.A, † *Engl*; Bennett, G. T, Sc D, F R S, *Maths*; Gardner, R, M A, *Class*, Bursar and Steward; * Greenwood, L H G, M A, *Class*, * Head, F W, M A, *Hist*; Hele, T S, M D, *Nat Sc*, † Anat and Physiol, Jones, B M, M A, A F.C, Mond Prof of *Aeronautics*, Lesley, J W, M A, † Bot, Peace, J B, M A; Whitney, J. P, D D, Prof of Eccl Hist, * Wood, A, M A, *Nat Sc*; * Wood, P W, M A, *Maths*

Other Lectrs, etc Brindley, H H., M A Joh, † Biol.; Bullough, E, M A Cat., † Mod Langs; Johnson, W E, M.A King's, † Mor Sc.; Lavington, F, M A, † Econ; Naylor, E. W, Mus D, *Music*; Woods, H., M A, F R S., Joh, † Geol.

GONVILLE AND CAIUS COLLEGE. Founded 1348. Master—Anderson, H. K., M D, F R S

Fellows Allbutt, Rt Hon Sir T C, K C B, M D., F R S, Prof. of Physic; † Brooke, Z N., M A, *Hist.*; Buckland, W W, M.A., Prof of Civ. Law; † Bullough, E, M A, *Mod. Langs*; * † Cameron, J. F., M A, *Maths. and Engin.*; † Cook, S. A., M A, *Heb. and Syriac*; † Debenham, F., O.B.E., B A, *Surv*, etc, Fisher, R A, M A, Fox, H. M., M.A.; † Gallop, E. G, M A., *Maths*, Gardiner, J. S, M A., F.R.S., Prof. of Zool; Gross, E. J., M A; † Hardy, W. B., M A., Sec. R S, *Physiol*; * Hunkin, J. W., O.B.E, M.A, *Div.*; Layton, W T, M.A., C B.E., Lock, C. N H., B.A.; Lock, J. B., M.A, Bursar; MacLeod, A R., B A, * † McNair, A. D, C B E., LL.M., *Law.*

* Tutor. † Director or Supervisor

Muir, M M. P, M.A ; Myers, C S, C.B E, Sc D, *Exp Psych* ; Okey, T, M A., Prof. of Italian ; † Peters, R A., M.A, M.D., *Physiol* , † Phear, H. W., M.A, *Engin* ; Prior, E. S, A R A, M A, Prof of Fine Art, Punnett, R. C, M A, F R S, Prof. of Genetics, Reid, J S, LL M, Litt.D, Prof. of Anc Hist , Ridgeway, Sir W, Sc D, F.B A, Prof of Archæol ; † Scott, J. E., M A, *Class.* ; * † Stratton, F. J M, M A., *Maths* ; Venn, J, Sc D, F.R S, President ; † Vesey, W. T, M A, *Class* ; Wallis, Rt. Rev. F, M.A, D D. ; † Wood, C, Mus D., *Music* ; Wood, T. B., C.B E, M A, Prof. of Agric.

Other Lectrs and Directors Brindley, H H, M A Joh, *Biol* ; Brooks, F. T, M A., *Bot.* ; Cooper, C F, M A Trin, *Zool* , Oliver, D T, LL M Trin H, *Roman Dutch Law*, Reid, D G., M A, *Anat* , Woods, H, M A, *Geol*

Jesus College. Founded 1496. Master—Gray, A, M A

Fellows * Abbott, E, M A, *Classics*, † Duckworth, W L H, M D, Sc D, * *Nat Sc* , Duke, W H, M A, *Classics*, †* Elliott, C A, M A, *Hist* , Foakes-Jackson, F J, M A, D D., † King, W B R, O B E, M A, *Geol* , Manning, B L, M A, Bursar, *Hist* , † Mills, W H, M A, *Nat Sc* , Nanne A, M A, D D, Asst *, Dean, *Theol* ; Quiller-Couch, Sir A T, M A, Prof of Engl Lit , Watt, J C, M A , Welsh, W, M A, Asst *, *Maths*

Other Directors of Studies Alston, L, M A Chr, *Econ* , Braunholtz, E G. W, M A King's, *Mod Lang* , Lavington, F, M A Emm, *Econ* , Lyon, T H, M A. Corp, *Architecture* , Peel, A W, M A Jes, *Econ* , Petherbridge, F R, M A Sid, *Agric* , Tillyard, E M W, O B.E, M A Jes, *Engl.*, Wheatcroft, W. H, LL D, Down, *Law*, Womersley, W D, M A Emm, *Mech Sci* , Wyatt, A J, M A Chr, *Mod Lang* , Wynn, H E, M A Jes, *Hist*

King's College Founded 1441 Provost—Sir Walter Durnford, G B E, LL.D.

Fellows : Adcock, F E, M.A, O B E, Dean, *Classics* ; Baker, P. J, M.A. ; Barcroft, J, M A, F R S, C B E, *Nat Sc* ; Berry, A, O B E, M A, *Maths* , Birch, F L, M A, O B E, Steward, Brooke, A E, D D, *Div*, Prof of Div., Bury, J B, M A, F B A, Prof of Mod Hist , Cholerton, A T, M A , * Clapham, J H, Litt D, C B E, *Hist and Econ* , Corbett, W J, M A, Bursar ; Davey, J E, M A , Dickinson, G L, M A , Durnford, H G E, M.A, Bursar ; Grant-Ives, C E, M A ; Gray, J, M A , Harris, W M, M A , Hartridge, H, M A, M D , Heycock, C T, M A, F R S, *Nat Sc* , Hill, A V, O B E, Sc D, F R S, F B A , Inglis, C E, M A, O B E, Prof of Mechanism, Johnson, W E, M A , Keynes, J M, M A, C B, Bursar, *Econ.* ; Knox, A D, M A , Lucas, F L, B A , Macaulay, W H, M A, Vice-Provost ; McCombie, H, M A , Milner-White, E, M A, Dean and Chaplain ; Pigou, A C, M A, Prof of Pol Econ , Radcliffe, W W, M A., Rawlins, F. H., M A., Reddaway, W F, M A, *Hist and Econ* , Richmond, H W., M A, F R S, *Maths* , Sheppard, J T, M B E, M A, *Classics*, Sills, H H, M A, *Classics* , Sorley, W R, Litt D, F B A, Prof of Mor. Philos , Tilley, A. A, M A, *Mod Langs* , Turner, L B, M A, *Mech Sc* , Walston, Sir Charles, M A, Litt D , Wedd, N, M A , Librarian , Wollaston, A F R, MA B Ch, D Sc

Magdalene College. Founded 1542. Master—Benson, A C, C.V O, LL D., *Hist.*

Fellows : Dickins, B, M A., Gaselee, S., C B E., M A, *Palæog* ; Mor-

* * Tutor. † Director or Supervisor.

shead, O. F., B.A., Librarian and Asst. Steward; Nuttall, G. H. F., Sc.D., F.R.S., Prof. of Biol.; Peel, T., M.A., Bursar and Steward, *Engin.*; Peskett, A. G., M.A.; * Ramsey, A. S., M.A., President, *Maths.*; Salter, F. R., M.A., Dean, *Hist.*, † Econ.; Vernon Jones, V. S., M.A., Asst. Tutor, *Classics*.

Other Directors of Studies: Adie, R. H., M.A., Agric.; Vulliamy, E. O., M.A., Mod. Langs.; Clark, F. H. H., M.A., Theol.; Crowther, J. A., Sc.D., Phys.; Winfield, P. H., LL.D., Law; Wyatt, A. J., M.A., Engl.; Halnan, E. T., M.A., Agric.; Foster, W. H., M.A., Chem. and Geol.; Salter, F. R., M.A., Econ.; Henderson, H. D., M.A, Econ.

PEMBROKE COLLEGE. Founded 1347. Master—Hadley, W. S., LL.D., *Classics and Mod. Hist.*

Fellows: Attwater, A. L., M.A., *Engl.*; Bethune-Baker, J. F., M.A., D.D., Prof. of Div.; Birtwistle, G., M.A., *Maths.*; Browne, E. G., M.A., M.B., Prof. of Arabic, President; Comber, H. G, M.A., Treasurer (Estates), *Mod. Langs.*; Hutchinson, A., M.A., *Nat. Sc.*; * Lawson, J. C., M.A., *Classics and Mod. Greek*; McCleland, N. P. K. J. O'N., Bursar (Home); Minns, E. H., Litt.D., Librarian, *Russian*; Pennell, V. C., M.A., † Med.; Smith, C. J., M.A., Dean, *Div.*; Spittle, J. T., M.A., † Mech. Sc.; Whibley, L., M.A., *Classics and Anc. Hist.*

Other Lectrs., etc.: Thatcher, W. S., M.A., † Econ.; Ziegler, C. H., LL.M., *Law*.

PETERHOUSE OR ST. PETER'S COLLEGE. Founded 1284. Master—Ward, Sir A. W., Litt.D., F.B.A.

Fellows: Barnes, W. E., D.D., Dean; Clayton, G. H., M.A., † Theol.; Dickson, J. D. H., M.A.; Dodds, J. M., M.A., Junr. Bursar and Steward; Edwards, H. J., M.A, C.B., C.B E., *Classics*; Lubbock, R., M.A., † Mech. Sc.; Temperley, H. W. V, M.A., O.B.E., Asst Tutor, *Hist.*; * Vellacott, P. C., M.A., *Hist.*; Walker, T. A., M.A., LL.D., Senior Bursar, † *Law*.

Other Lectrs., etc.: Bedford, T. G., M.A. Sid., † Nat. Sc.; Grace, J. H., M.A., F.R S, *Maths.*; Winfield, P. H., LL D, † Law.

QUEENS' COLLEGE. Founded 1448. President—Fitzpatrick, T. C., D.D.

Fellows: Cook, A. B., M.A., *Classics*; * Gray, J. H., M.A., Prælector, *Classics*; Kennett, R. H., D.D., Prof. of Hebrew; Laffan, R. G. D., M.A., *Engl. Hist. and Lit.*, † Hist.; Munro, A., M.A., Bursar, *Maths.*, † Mech. Sc.; Sleeman, C. M., M.A., Bursar, † Nat. Sc.; Wood, C. T., M.A., Dean, *Div., and Hebrew*; * Wright, A., D.D., Vice-President.

Other Directors of Studies: Momber, R. M. S. T., M.A., Mod. Langs.; Carr, F., LL.D., Law.

ST. CATHARINE'S COLLEGE. Founded 1473. Master—The Rt. Rev. T. W. Drury, D.D., *Theol.*

Fellows: Biffen, R. H., M.A., F.R.S., Prof. of Agric. Bot.; Carr, E. T. S., M.A.; Chaytor, H. J., M.A., *Mod. Langs.*; Jones, W. H. S., M.A., *Class. and Anc. Hist.*; Newman, L. F., M.A., *Agric. and Nat. Sc.*; Portway, D., M.A., *Mech. Sc.*; * Rushmore, F. M., M.A., President, *Hist.*; Withers, J. J., C.B.E., M.A.

Other Lectrs., etc.: Alston, L., M.A., † Econ.; Carr, F., LL.D., † Law; Foster, W. H., M.A., †Nat. Sc.; Fox, C., M.A., † Ment. and Mor. Sc.; Munro, A., M.A., *Maths.*; Oldham, H. Y., M.A., † Geog.; Perrett, G. B., M.A., † Hist.; Roderick, H. B., M.D, M.Ch., † Med.; Sayers, L. D., M.A., † Nat. Sc.; Tillyard, E. M. W., M.A., † Engl.

* Tutor. † Director or Supervisor.

ST. JOHN'S COLLEGE (1511). Master—R. F. Scott, M.A.

Fellows: Appleton, E. V., M.A., † Mineral.; * Armitage, B. W. F., M.A., *Nat. Sc. and Med.*; Baker, H. F., Sc.D., F.R.S. Prof. of Astron.; Bartlett, F. C., M.A., † Mor. Sc.; * Benians, E. A., M.A., *Hist.*; Bennett, G. M., M.A.; Blackman, F. F., M.A., F.R.S.; Bonney, T. G., Sc.D., F.R.S., *Maths.*; Briggs, G. E., M.A.; Bromwich, T. J. I'A., Sc.D., F.R.S., † *Maths.*; Bruford, W. H., M.A.; Campbell, A. Y., M.A., *Classics*; Constable, W. G., M.A.; Coulton, G. G., M.A.; Cox, W. A., M.A.; Creed, J. M., M.A., *Theol.*; Cunningham, E., M.A., *Maths.*; Engledow, F. L., M.A., † Agric.; Foxwell, H. S., M.A., † Econ.; Glover, T. R., M.A., *Classics*; Guillebaud, C. W., M.A.; Harker, A., M.A., F.R.S., F.G.S.; Heitland, W. E., M.A.; Jeffreys, H., B.A.; Larmor, Sir Joseph, M.A., F.R.S., M.P., Prof. of *Maths.*; Leathem, J. G., Sc.D., Senior Bursar; Lees, S., M.A.; Liveing, G. D., Sc.D., F.R.S., President; MacAlister, Sir Donald, M.A., M.D., K.C.B.; Mills, E. H. F., M.A., † Engl., etc.; Marr, J. E., Sc.D., F.R.S., Prof. of Geol.; Palmer, W. G., M.A., Chem. †; Previté-Orton, C. W., M.A., *Hist.*, Librarian; † Prior, O. H. P., M.A., Prof. of French; Rapson, E. J., M.A., Prof. of *Sansk.*; Rivers, W. H. R., M.A., F.R.S., Prælector in Nat. Sc.; Rootham, C. B., Mus.Doc., Organist, *Music*; Sandys, Sir John E., Litt.D., F.B.A.; Shore, L. E., M.D., † Med., and Physiol., Junior Bursar; * Sikes, E. E., M.A., † *Classics*; Stevens, A. J., M.A.; Street, R. O., M.A.; Tanner, J. R., Litt.D., Tutorial Bursar, † Hist., Hon. Lectr.; Ward, J. T., M.A.; Webb, R. R., M.A.; White, F. P., M.A., *Maths.*; Wilson, J. T., M.A., Prof. of Anat.

Other Lectrs., etc.: Atkinson, R. H., M.A., † Chem.; Brindley, H. H., M.A., Steward, † Biol., How, J. C. H., M.A. Joh. and Trin., *Hebrew*; Lister, J. J., M.A., F.R.S., † Zool.; Peake, A. H., M.A., † *Mech. Sc.*; Stanners, R. W., M.A., † Econ.; Winfield, P. H., LL.D., *Law*; Woods, H., M.A., F.R.S., † Geol.; Grace, J. H., M.A., *Maths.*; Lavington, E., M.A., † Econ.; Holden, H. F., M.A., † Chem.

SIDNEY SUSSEX COLLEGE. Founded 1596. Master—* G. A. Weekes, M.A.

Fellows: Edwards, G. M., M.A.; Hackforth, R., M.A., *Classics*, Prælector; * Knox-Shaw, T., M.A., *Maths.*; McNeile, A. H., M.A., D.D.; Mayall, R. H. D., M.A., *Maths.*; Passant, E. J., M.A., *Hist.*; Pope, Sir W. J., K.B.E., M.A., F.R.S., Prof. of Chem.; Robson, H. C., M.A., Bursar; Smith, B. T. D., M.A., *Theol.*, Dean; Thacker, C. R. A., M.A., M.D., B.Ch., *Nat. Sc.*, † Biol. and Med., Steward; Wilson, C. T. R., M.A., F.R.S.

Other Directors of Studies: Mills, W. H., M.A. Jes., Chem.; Petherbridge, F. R., M.A., Agric.; Wheatcroft, W. H., LL.D., Down., Law; Wyatt, A. J., M.A. Chr., Med. and Mod. Langs.; Lyon, T. H., M.A. Corp., Archit.; McCombie, H., M.A. King's, Chem.; Portway, D., M.A. Cath., Mech. Sc.; Thatcher, W. S., M.A., Econ.

TRINITY COLLEGE. Founded 1546. Master—Sir Joseph J. Thomson, M.A., O.M., F.R.S.

Fellows: Adam, N. K., M.A.; Adrian, E. D., M.A., M.B., B.Ch., *Nat. Sc.* Aston, F. W., M.A.; Ball, W. W. R., M.A.; Bevan, A. A., M.A., *Oriental Langs.*; Boughey, A. H. F., M.A.; Bragg, W. L., B.A., *Nat. Sciences*; Burnaby, J., M.A., Junr. Dean; Butler, J. R. M., M.A., M.V.O., *Hist.*; Buxton, P. A., M.A.; Capstick, J. W., M.A., O.B.E.; Chapman, S., M.A., *Maths.*, Junior Dean; Cornford, F. M., M.A., *Classics*; Duff, J. D., M.A.; * Dykes, F. J., M.A., *Mech. Sciences*; Eddington, A. S., M.A., Prof. of *Astron.*; Fletcher, Sir Walter M., M.A., M.D., Sc.D., K.B.E., F.R.S.; Fowler, R. H., M.A., *Maths.* (Asst.); Frazer, Sir J. G., M.A., F.B.A.;

* * Tutor. † Director or Supervisor.

Glaisher, J. W. L., Sc.D., F.R.S.; Glazebrook, Sir Richard T., M.A., K.C.B., F.R.S.; Glauert, H., M.A.; Hardy, G. H., M.A., F.R.S., *Maths.*; * Harrison, E., M.A., *Classics*; Herman, R. A., M.A.; Hicks, R. D., M.A.; Hollond, H. A., M.A., LL.M., *Law*; Hopkins, F. G., M.A., F.R.S., Prof. of *Bio-Chem.*; Housman, A. E., M.A.; Innes, H. McL., M.A., Senior Bursar; Jackson, H., M.A., Litt.D., F.B.A., O.M.; Jenkinson, F. J. H., M.A.; Kirkpatrick, Very Rev. A. F., M.A., D.D.; Langley, J. N., M.A., Sc.D., F.R.S., Prof. of *Physiol.*; * Lapsley, G. T., M.A., *Hist.*; Laurence, R. V., M.A., *Hist.*; Littlewood, J. E., M.A., F.R.S., *Maths.*; McTaggart, J. McT. E., Litt.D., F.B.A., *Mor. Sciences*; Marshall, T. H., B.A.; Milne, E. A., B.A.; Newall, H. F., M.A., F.R.S., Prof. of *Astro-Physics*; Nicholas, T. C., M.A., *Nat. Sc.*; Parry, R. St. J., D.D., Vice-Master; Pollard, S., M.A., *Maths.* (Asst.); Postgate, J. P., M.A., Litt.D., F.B.A.; Prior, J., M.A.; Proudman, J., M.A.; Pye, D. R., M.A., *Mech. Sc.*; Ramanujan, S., B.A.; Ritchie, A. D., M.A.; Robertson, D. H., M.A., *Econ.*; Robertson, D. S., M.A., *Classics*; Rutherford, Sir Ernest, M.A., F.R.S., Prof. of Expl. Physics; Schreiner, O. D., M.A.; Sedgwick, R. R., M.A.; Simpson, F. A., M.A., Senior Dean, *Hist.*; Southwell, R. V., M.A., *Mech. Sc.*; Stanton, V. H., D.D., Prof. of *Div.*; Stewart, H. F., D.D., † French; Taylor, G. I., M.A., F.R.S., *Maths.*; Taylor, H. M., M.A., F.R.S.; Tennant, F. R., D.D., *Theol.*; Ward, Jas., M.A., Sc.D., F.B.A., Prof. of *Mental Philos. and Logic*; Whetham, W. C. D., M.A., F.R.S., *Nat. Sciences*; Whitehead, A. N., Sc.D., F.R.S., *Philos. of the Sciences*; * Winstanley, D. A., M.A., *Hist.*

Other Lectrs.: Glover, T. R., M.A., *Eccl. Hist.* (Birkbeck); Lawrence, T. E., C.B., M.A., *Mil. Hist.* (Lee Knowles), ... Engl. Lit. (Clark).

TRINITY HALL. Founded 1350. Master—H. Bond, LL.D., *Law.*

Fellows: Angus, C. F., M.A., *Classics*; Bell, W. G., M.A.; Campbell, Hon. I. M., M.A., Bursar; * Chase, G. A., M.A., *Div.*; Dale, Sir Alfred W. W., M.A.; Hayes, R. A., M.A., *Engin.*; Hopkins, F. L., M.A.; Oliver, D. T., LL.M., † *Law*; Potts, F. A., M.A., *Nat. Sc.*; * Pym, W. St. J., M.A.; Rideal, E. K., M.A., † *Chem.*; Woodhead, Sir G. Sims, M.A., Prof. of Path.

Law Lectr.: Oliver, D. T., LL.M.

SELWYN COLLEGE PUBLIC HOSTEL. Founded 1882. Master—Murray, J. O. F., D.D.

Fellows: Borradaile, L. A., M.A., *Nat. Sc.*, † Med.; * Carpenter, S. C., M.A., *Theol.*; * Jordan, W. E., M.A., Vice-Master, *Classics, Hist.*; * Knott, H. C., M.A., Bursar, Prælector, *Maths.*; Marsh, F. S., M.A., Dean, *Theol.*, Perrett, G. B., M.A., *Hist.*, Williams, W. N., M.A., LL.B., *Classics*, † Law.

Other Directors of Studies: Stewart, H. F., D.D., Trin., Med. and Mod. Langs.; Wood, C., Mus.D. Cai., Music.

FITZWILLIAM HALL. Established 1887. Non-collegiate students. Censor—Reddaway, W. F., M.A. Asst. Censor—G. H. Harris, M.A.

Directors of Students: Attenborough, F. L., M.A., Engl.; Bell, W. G., M.A., Maths.; Ezard, E. H., M.A., M.D., Med.; The President of Queen's, Nat. Sc.; Fox, C., M.A., Mor. Sc.; Gaskoin, C. J. B., M.A., Hist.; Goudy, A. P., M.A., Russian; Harris, G. H., M.A., Theol.; Hayes, R. A., M.A., Mech. Sc.; Heath, S. P., M.A., Nat. Sc.; Johnson, E. W., B.D., Theol.; Joseph, C. G., M.A., Geog.; Mackenzie, K. J. J., M.A., Agric.; Oldham, H. Y., M.A., Geog.; Oliver, D. T., M.A., LL.D., Law; Purvis, J. E., M.A., Chem.; Scott, T. F., M.A., Econ.; Thatcher, F., M.A., Chaplain, Prælector; Thatcher, W. S., M.A., Econ.; Vernon Jones, V. S., M.A., Classics; Wyatt, A. J., M.A., Med. and Mod. Langs.

* Tutor. † Director or Supervisor.

WOMEN'S COLLEGES recognized by the University:

GIRTON COLLEGE. Founded 1869. Mistress—Miss K. Jex-Blake, M.A. Dub. Directors of Studies and Resident Lectrs.: Janet R. Bacon (Classics); Hilda M. R. Murray, M.A. Dub. (Engl. and Hist. and Compar. Philol.); Eileen E. Power, M.A. Lond. (Hist); Frances E. Cave-Browne-Cave, M.A. Dub. (Maths.); Kathleen T. B. Butler (Med. and Mod. Langs.); Lizzie S. Stebbing (Moral Sc.); M. Beatrice Thomas (Nat. Sc.); Barbara F. Wootton, Mrs. (Econ.).

Bursar and Vice-Mistress—Eleanor M. Allen, M.A. Dub. Librarian—Ethel S. Fegan. Junior Bursar—Pauline K. Leveson, M.A. Dub. Secy.—Mary Clover, M.A. Dub.

NEWNHAM COLLEGE. Founded 1871. Principal—Miss B. A. Clough.

Vice-Principal and Tutor—Agnes B. Collier, M.A. Dub. (Old Hall); Tutors—J. Pernell Strachey, M.A. Dub. (Peile Hall), Lectr. in *Mod. and Med. Langs.*; M. Steele Smith (Clough Hall), Lectr. in Engl.; E. M. Chrystal (Sidgwick Hall), Junr. Bursar.

Other College Lectrs.: L. M. Swain (Maths); Jane E. Harrison and Hilda Richardson (Classics); Edith R. Saunders (Botany); Gertrude L. Elles, D.Sc. Dub. (Geol.); J. Mabel W. Slater, D.Sc. Lond. (Chem. and Physics); Catherine B. Firth, D.Lit. Lond. (Hist.); Minna S. Smith and Anna C. Paues, B.A Dub., Ph.D. Upsala (English); Lynda Grier (Econ.). Bursar—Lilian M. Bagge. Registrar of the Roll—Edith M. Sharpley.

AFFILIATION

The privileges of affiliation are granted, under certain conditions, (*a*) to members of Affiliated Institns.; (*b*) to graduates of other Univs. approved for the purpose. A student fulfilling the required conditions is entitled to either or both of the following privileges, namely: (1) to be exempted from all parts of the Previous examn.; (2) to reckon the 1st term kept by residence as the 2nd, 3rd, or 4th term of his residence, for the purposes of all provisions respecting the standing of candidates for Tripos examns. or for Degree examns. in Med., Surg., or Music, and respecting the standing of candidates for degrees.

List of Affiliated Institutions. St. David's Coll., Lampeter; St. Edmund's Coll., Old Hall, Ware. *Univ. Colls.*—Wales (Aberystwyth), S. Wales (Cardiff), Nottingham, Southampton, Exeter. *Universities*—Adel., All., Bish., Bom., Calc., Hong-Kong, King's (N.S.), McGill, McM., Mad., Mt. All., New B., New Z., Panj., Patna, Queen's (Ont.), Queensland, St. Fr. Xavier (N.S.), Sheff., S. Africa, Syd., Tasm., Tor. *Local Lectures Centres*—Exeter, Leic., S'port.

List of Approved Universities. Aberd., Belf., Birm., Bris., Dub., Durh., Edin., Glas., Illinois U.S.A., N.U.I., Leeds, Liv., Lond., Manc., Ox., St. And., Wales.

GENERAL INFORMATION

The SENATE, consisting, generally speaking, of all Masters of Arts and Masters of Laws who have retained their membership of the Univ. by the fulfilment of prescribed formalities and payment of proper dues, has full power to legislate for the Univ. subject to the Univ. Statutes, and allows degrees, appoints most of the Univ. officers, and elects the 2 members who represent the Univ. in the House of Commons.

The executive authority of the Univ. rests in theory with the Chancellor, but as he is by custom a non-resident officer, it devolves in practice upon his deputy, the Vice-Chancellor, who is appointed every year from among the

Heads of Colleges. With the Vice-Chancellor is associated a Council of 16 members known as the *Council of the Senate*, which is elected under certain restrictions by what is roughly the resident part of the Senate—known as the *Electoral Roll*. This Council, besides its executive position, has also an important position in respect of legislation, as no Grace can be put to the Senate unless it has first received the sanction of the Council. The Univ. appoints *Syndicates* to administer various departments of Univ. business and *Special Boards of Studies* to superintend Univ. teaching and examns. in the various subjects of study. The system of teaching as a whole is under the supervision of a *General Board of Studies*, on which all the more important subjects of study are represented. All proposals involving the spending of money are submitted by the Council to the *Financial Board*.

The COLLEGES are corporate bodies distinct from the Univ. They possess and manage their own property; they are self-governing and elect their own officers; and for nearly all purposes they are independent of Univ. control. The connection between them and the Univ., however, is of the most intimate kind. The Univ. is in part supported by contributions from them, and without any formal agreement to that effect the Univ. and the Colls. do as a matter of fact recognize each other's regulations. Nearly all the members of the Univ. belong to the Colls., and all the members of the Colls. belong to the Univ. The work of teaching is divided between the Univ. Profs., Lectrs., etc., and the more numerous body of College Lectrs.

MATRICULATION is effected by signing in a register following upon admission as a member of a Coll. or as a Non-Collegiate student; the Univ. does not require any examn. to be passed before Matricn., but an applicant for admission to a Coll. must, in general, satisfy its authorities by passing the Coll. Entrance examn. or otherwise that his attainments are sufficient to enable him to pass the Univ. examns. in due course, and ultimately to proceed to a degree. In effect the *Previous examn.* (v. *infra*) takes the place of the Matricn. examn. of other Univs.

For admission as a member of a Coll. or as a Non-Coll. student application should be made to the proper officer, namely, the Senior Tutor, Christ's, Cai., Clare; the Tutor, Cath., Corp., Down., Magd., Pet., Sid., or Trin. H.; one of the Tutors, Trin.; the Provost or Tutor, King's; the President, Queens'; the Master of any of the other Colls.; the Censor, Fitzwilliam Hall (Non-Coll. students). It is important for those who wish to have rooms in Coll. to apply for admission a long time beforehand.

TERMS. In order that a term may be counted towards qualifying for a degree, a student must reside in Cambridge (*i.e.* within a circle of 2½ miles radius from Gt. St. Mary's Church) during three-fourths of the term.

INCORPORATION. Students who before admission as members of this Univ. have kept terms by *bona-fide* residence at Ox. or Dub. are, subject to certain provisos, allowed terms corresponding to those which they have so kept; a graduate of Ox. or Dub. who took a degree or degrees after having duly qualified himself therefor not only by having passed the examns., etc., required, but by having kept his terms by residence in his own Univ., may be admitted on certain conditions to the same degree or degrees in Camb.

DEGREES. B.A., M.A., M.Litt., M.Sc., Litt.D., Sc.D.; B.D., D.D.; LL.B., LL.M., LL.D.; M.B. and B.Ch., M.Ch., M.D.; Mus.B., Mus.M., Mus.D.; Ph.D.

ARTS. The qualifications for the B.A., except for *Research students* (v. *infra*), are: (i.) 9 terms residence; (ii.) passing or being exempted from the

Previous examn.; (iii.) passing the examns. for the ordinary degree or a Tripos examn.

Exemption from (i.) to the extent of 3 terms can be obtained by students entitled to the privileges of *affiliation* (v. *supra*).

(ii.) The Previous examn. consists mainly of Latin, one other language, Maths., and English. Subject to certain provisos, natives of Asia or Africa who are not of European parentage may substitute papers in Arabic, Chinese, Sansk., or Pali for the Latin papers.

Exemption from (ii.) can be obtained by students who hold certain certifs. granted by various Univs. of the U.K., by the Univ. of N.Z., or by the Scotch Education Dept., or gained in Austria-Hungary, France, Germany, Russia, Spain, or Switzerland; such exemption is also granted to students entitled to the privileges of affiliation.

As regards (iii.), the ordinary B.A. is obtained by either 2 special examns., or the Prelim. examn. in Science and a special examn. The subjects of the special examns. are Agric. Sc., Botany, Chem., Classics, Engin., Geog., Geol., Hist., Law, Logic, Maths., Military Subjects, Mod. Langs., Music, Physics, Physiol., Pol. Econ., Psychol., Theol., Zool. The Honours B.A. is obtained by passing in the following Triposes: Anthropol., Classical, Economics, English, Geog., Hist., Law, Maths., Mech. Sciences, Med. and Mod. Langs., Mor. Sc., Nat. Sc., Oriental Langs., Theol.

A Bachelor may be admitted *Inceptor* in Arts at the end of six years from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his *inauguration* (which occurs on Dec. 24 following admission to the title of a degree). The Inceptor is *created* M.A. at the end of the following Easter term.

DIVINITY. A M.A. or LL.M. proceeds to the B.D. some time after the expiration of 4 yrs. from his *creation*, either (1) by submitting an original dissertation composed by himself in Latin or English on some subject connected with Biblical Criticism, Exegesis, or History, or with the Evidences of Christianity, or with Dogmatic Theology, or with the study of other Religions in relation to the Christian Religion, or with Ecclesiastical History, Literature, or Antiquities, or with the Philosophy of Religion, or (2) by specifying his published works on one or more of these subjects and, if considered desirable, being examined thereon. He is not admitted to the B.D., however, until the 7th yr. from his *creation*. A B.D. of 5 yrs. standing proceeds to the D.D. by submitting published works or a printed dissertation on the same subjects as those for the B.D.

LAW. A student who has kept 9 terms and obtained Honours in both parts of the Law Tripos or Honours in some other Tripos and subsequently Honours in either part of the Law Tripos is entitled to the LL.B. as well as the B.A. A graduate who desires the LL.B. must satisfy the examiners for the Law Tripos in both parts or, on certain conditions, in one. A B.A. or LL.B. who has fulfilled certain conditions may be admitted *Inceptor* in Law at the end of 6 yrs. from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his *inauguration*. A M.A. who has fulfilled these conditions may also be admitted Inceptor in Law. A LL.M. who makes an original contribution to the advancement of the science or study of Law may be admitted LL.D. 5 yrs. after *creation*.

MEDICINE. The qualifications for the M.B. and B.Ch. are: (i.) 9 terms residence; (ii.) passing (or exemption from) the *Previous* examn. (v. *supra*); (iii.) 5 yrs. Medical study; (iv.) passing in due order 3 examns. and presenting an approved thesis. Admission to the 2nd M.B. examn. is conditional on

proof of diligent attendance on prescribed courses of lectures and practical work. Admission to the 3rd M.B. is conditional on proof of 3 yrs. of hospl. practice, 5 yrs. Medical study, and diligent attendance on prescribed courses of instruction and practical work. A M.B. in the 9th term after *inauguration* (v. *supra*) and a M.A. in the 12th after *creation* may be admitted M.D. on submission of a thesis or dissertation, but the M.A. must have attended lectures and hospl. practice and passed examns. as required for the M.B. A B.Ch. after 3 yrs. from inauguration may be admitted Inceptor in Surgery and so by creation to the M.Ch. degree. A M.A. may be admitted also if legally qualified to practise Surgery. A candidate for the M.Ch. must either pass the examn. for the degree or be exempted therefrom in consideration of a contribution to the advancement of the Science or Art of Surgery. Addenbrooke's Hospl., containing 192 beds and large out-patient depts., is available for clinics.

MUSIC. The qualifications for the Mus.B. include (i.) 9 terms residence; (ii.) passing (or exemption from) the *Previous* examn.; (iii.) passing an examn. in two parts whereof the first may not be taken before the 2nd term, nor the 2nd before the 8th term. The Mus.M. may be taken after at least 3 yrs. have elapsed since *inauguration* (v. *supra*) as Mus.B. and after passing the prescribed examn.

Persons not less than thirty years of age who have graduated in some Faculty of the Univ. and given proofs of distinction in musical composition may be candidates for the Mus.D.

The Sc.D. and LITT.D. Any person may be a candidate for either degree who is a M.A., LL.M., or M.Ch. of not less than 5 yrs. standing or a M.B. of not less than 7. These degrees are granted in consideration of original contributions to the advancement of Science or Learning.

DIPLOMAS. In addition to degrees, which are for the most part conferred only on its own members, the Univ. grants 5 Diplomas which are open to other persons—in Geog., in Psych. Med., in Pub. Health, in Med. Radiology and Electrology, and in Tropical Med. and Hygiene—and 7 which are almost entirely restricted to members of the Univ.—in Agric., Anthrop., Class. Archæol., Forestry, Geog., Horticulture, Mining Engin, and Oriental Languages. *Certificates*, open to members of the Univ. only, are conferred in Architecture (open to graduates only) and in certain foreign languages. A *Divinity Testimonium* is granted on proof of diligent attendance at 6 courses of lectures.

The Univ. makes provision for the training of candidates for the Higher CIVIL SERVICES; Student Interpreters; Indian Civil Service selected candidates; candidates for administrative appointments in Tropical Africa and other branches of the Civil Service and for service under the Govts. of Egypt and the Sudan. To meet the wants of Civil Service candidates a series of lectures supplementary to the courses for regular Tripos candidates has been arranged by the Board of I.C.S. Studies, and by a Committee of Associated Colls. Detailed information may be obtained from the Director of Civil Service Studies, appointed by this Committee (G. P. Moriarty, M.A., 1 Mill Lane), and from H. A. Roberts, M.A., Univ. Offices, St. Andrew's St., who is Secy. to the Board of I.C.S. Studies, to the Foreign Service Students Committee, and to the Appointments Board.

A system of MILITARY INSTRUCTION has also been organized by the Univ. The Board of Milit. Studies (Secy.—H. J. Edwards, C.B., M.A. Pet.) are in direct communication with the War Office and responsible for the nomination of Camb. Univ. candidates for Regular commissions in H.M. Forces.

The TRAINING OF TEACHERS is under the management of the Teachers Training *Syndicate*, established in 1878 (Secy.—W. G. Bell, M.A. Trin. H.; address—Warkworth House).

Examns. for the Univ.'s *Certificate of Proficiency*, held in June and Dec., are open to students of certain colleges, and to teachers who have had at least a year's experience in an approved Secondary School, if their attainments are satisfactory.

Students of the *Training College* (Principal—C. Fox, M.A. Chr.; address—Warkworth House) devote their first 3 yrs. to reading for the B.A. degree, the 4th to professional training. Several scholarships and exhibitions are offered to intending schoolmasters who have been Bursars, Student Teachers, or Pupil Teachers.

There is also a Training Coll. for Women. Principal—Miss M. H. Wood, M.A. Lond., Litt.D. Dub., Girton; address—Wollaston Rd.

Candidates are trained for HOLY ORDERS at Ridley Hall, founded in 1880 (Principal—A. J. Tait, D.D. Joh.); or at the Clergy Training School, Westcott House, founded in 1881 (Principal—Rev. Canon B. K. Cunningham, M.A. Chr.). These and other similar institns.—the Westminster Coll., founded 1844 (Principal—J. Skinner, D.D. Aberd., M.A. Joh., Presbyterian); Cheshunt Coll., founded 1768 (Resident Tutor—Rev. E. W. Johnson, M.A., Undenominational); and St. Edmund's House, founded in 1896 (Principal—Rev. J. L. Whitfield, M.A., Roman Catholic)—are not directly or definitely concerned or connected with the Univ.

RESEARCH STUDENTS. Each application for admission must be accompanied by (i.) a diploma or other certif. of graduation at a Univ.; (ii.) a statement as to the course of research which the applicant desires to pursue, together with evidence of qualification, attainments, and previous study; (iii.) a certif. or declaration that the applicant has attained the age of 21 yrs. In exceptional cases requirement No. (i.) may be dispensed with. The application is not granted unless it appears (*a*) that the course of research can conveniently be pursued within the Univ., and (*b*) that the applicant has produced adequate evidence that he is qualified to enter upon the proposed course.

A Research student pursues his course under direction and supervision, prescribed by the Degree Committee of the Special Board of Studies concerned. If he wishes to obtain a degree elsewhere he may, after he has pursued his studies in the Univ. for not less than 2 terms with regularity and industry, receive a *Certificate* to that effect. After a course extending over 2 yrs. the M.Sc. or M.Litt. may be obtained. As regards the Ph.D., v. p. 10.

UNIVERSITY SCHOLARSHIPS open to graduates number about 57, and are worth about £5600 p.a. In almost every instance they are open only to persons who have graduated in or are members of this Univ., and in some cases only to those who have kept a certain number of terms. For details see *Students' Handbook* (price 6s., Univ. Press), which also gives details of *Entrance* Scholarships.

APPOINTMENTS. There are two organizations: (1) the Appointments Board, which is concerned with appointments of all kinds (Secy.—H. A. Roberts, M.A.; Asst. Secy.—R. S. Goodchild, M.A., Univ. Offices); and (2) the Scholastic Agency, which is concerned with scholastic appointments only (Director—Prof. W. J. Lewis; office at Mineralogical Museum).

ADVISER OF INDIAN STUDENTS: B. L. Manning, M.A., Jesus Coll.

WOMEN. From 1872 women were informally admitted to Tripos examns. in the Univ., and from 1881 have been formally admitted to the Previous examn., the Tripos examns., and certain examns. in Med. and Music. They are also admitted to the courses and examns. for the Diplomas in Agric., Forestry, and Geog., and for the Training of Teachers, and are now eligible for Certifs. of Research. The regulations under which women students are admitted to Univ. examns. may be obtained from J. H. Flather, Esq., Syndicate Buildings, Cambridge.

The UNIVERSITY LIBRARY contains over 900,000 vols., including many early printed books, and over 10,000 MSS. and 100,000 maps. It is entitled under the Copyright Act to a copy of every book published in the U.K., and a large number of foreign books and periodicals are acquired by purchase. Each Coll. and Pub. Hostel has a library. Some are interesting survivals of mediæval rooms kept in the state in which they were originally arranged. There are also many departmental libraries, such as the Class. Archæol.; the Seeley Memorial (works on Hist. and Comp. Politics originally collected by John Symonds, Regius Prof. of Mod. Hist. from 1771 to 1807, and added to by his successors); Economics; Law (Squire Law Library); Mod. Langs.; Moral Sciences; Bendall (Arabic, etc.); Pathological School; Music collections in the Fitzwilliam Museum and Museum of Archæol.; Conchol. and Ornithol. (in Museum of Zool.); Robertson Smith (Oriental books); Selwyn Div. School. The Philos. Library maintains a special relation to all the Scientific Depts. and is very rich in sets of Journals and Scientific Transactions. The Balfour Library contains a large collection of books and periodicals on biological subjects.

MUSEUMS of Art and Archæology. The Fitzwilliam (Director and Marlay Curator—S. C. Cockerell, M.A.) contains a large and valuable collection of paintings, drawings, engravings, Egyptian and Greek antiquities, ceramics, coins, illustrated MSS., autographs and early printed books; the Museum of Class. Archæol. (Curator—A. B. Cook, M.A. Qu.) contains a collection of casts illustrating the history of Greek sculpture.

The Museum of Ethnol. and Archæol. (Curator—Baron A. von Hügel, M.A. Trin.) has a large and increasing collection, including Saxon urns and ornaments, casts of Central American monuments, Egyptian stone implements, unique Fijian collection, and numerous others resulting from scientific expeditions by Cambridge men.

The "Museums of Science" consist of the museums, labs., lecture-rooms, class-rooms, and workshops for Agric., Bio-Chem., Bot., Chem., Engin. (including Engine-room, Elasticity, Elec., and Hydraulic Labs., and drawing office), Exper. Physics, Hum. Anat., Ethnol., Forestry, Medicine, Mineralogy (collection very largely increased in recent years and one of the best in the country), Physiol., Psychol., Zool. and Comp. Anat. The Zool. Lab., in addition to providing for the ordinary work of the Dept. and for research, affords peculiar facilities for the study of diseases of animals and of economic entomology. The Museum of Zool. includes very complete series of vertebrates and invertebrates, the fishes obtained by Charles Darwin during the voyage of H.M.S. *Beagle*, a series of invertebrata from Naples, valuable collection of Polyzoa, extensive collection of marine animals from Pacific and Indian Oceans, and an important collection illustrating heredity, protective resemblance, and mimicry [Supt.—C. F. Cooper, M.A. Trin.; Strickland Curator (Birds)—H. Gadow, M.A., F.R.S. (King's); Curator in Entom.—H. Scott, M.A. Trin.]. The Sedgwick Museum of Geol. includes a fine collection of British and foreign building stones lately added to the Economic section. In

addition to the labs. of the School of Agric. there are Field Labs. covering about 10 acres, provided by means of Govt. grants for an Inst. for Research in Animal Nutrition; also a Univ. Farm of 200 acres and Plant-breeding Farm of 230 acres.

The OBSERVATORY (Director—Plumian Prof. of Astr.), about a mile from Cambridge, has a meridian circle of 8¼-in. aperture; the Northumberland equatorial 12 in. aperture; the Sheepshanks photographic equatorial 12¼ in.; a number of smaller instruments, and a good library. The Solar Physics Observatory standing close to the older Obs. has the Newall telescope (25 in.), McClean cœlostat and spectrograph, Huggins telescopes, etc. The Univ. has taken over charge (for the Govt.) of the Solar Physics Obs. formerly at South Kensington, receiving a grant-in-aid.

The CAMBRIDGE LOCAL EXAMINATIONS, instituted in 1858, are conducted at various places throughout the country and in the Colonies. Copies of the Regns. regarding the Junr., Senr., and Higher Local and Higher School Certificate examns. and the examns. (designed for teachers of not less than 20 yrs. of age) for Certifs. of Proficiency in Religious Knowledge and in Mod. Langs., may be obtained from the Secy. to the Local Examns. and Lectures Syndicate—J. H. Flather, M.A., Syndicate Buildings.

UNIVERSITY EXTENSION Lectures are delivered and classes in connexion with them held by a staff of about 25 itinerant lecturers in various towns in different parts of England, including places so distant as Southport, Newcastle, Gt. Yarmouth, and Exeter, under a system initiated in Cambridge in 1873. The characteristic features of the method of teaching adopted are (i) the Lecture presenting the subject in broad outline, (ii.) the Class, held for about an hour before or after the lecture, at which questions are given out by the lectr., (iii.) the short essays written on these questions, and (iv.) the examn. The grades of certifs. are: *Terminal*, awarded after a course of ordinarily 12 lectures; *Sessional*, for courses extending over not more than 2 yrs. and including at least 22 lectures; the *Vice-Chancellor's*, awarded to students who obtain Terminal or Sessional certifs. satisfying certain conditions and submit a satisfactory essay; and *Affiliation* certif., obtainable only at affiliated centres (Exeter, Leicester, and Southport) under special conditions. A *Travelling Library* is provided by the Syndicate for each course. The work is under the management of the Local Examns. and Lectures Syndicate, and full particulars can be obtained from the Secy. for Lectures, Syndicate Buildings (Rev. D. H. S. Cranage, Litt.D.).

TUTORIAL CLASSES have been instituted in connexion with the Workers' Educational Assocn. They are in each case limited to about 30 members, most of whom are working men and women, who pledge themselves to attend the 24 lectures and classes provided in each session and to write essays. The course covers at least 3 yrs. The classes are managed by a Committee appointed by the Syndicate, consisting of 6 resident members of the Senate and 6 representatives nominated by the W.E.A.

PUBLICATIONS. The *Camb. Univ. Reporter*, weekly during term, 3d. a copy, terminal subs. 2s. 6d., or by post 3s. 6d.; *Ordinances*, 1914 (fresh editions every 3 or 4 yrs., with suppts. in intervening years); *The Students' Handbook*, annually in July, 6s.; *Compendium of Univ. Regns.*, 6d.; *The Statutes of the Univ., with some Acts of Parlt.*, 3s. 6d.; *Endowments of the Univ. of Camb.*, 1904;

Matricn. and Degrees (a list of all those who have entered the Univ.; 1544–1659, 1850–1900, 1901–1912); the *Calendar* and the *Historical Register*, pubd. by the Univ. Press. *Histories*: (*a*) *Annals of Camb.*, by C. H. Cooper, (5 vols.). (*b*) *The Univ. of Camb.*, by J. B. Mullinger (3 vols.). (*c*) College Histories—Robinson's Series, various authors; Dent's Series—King's, St. John's, Trinity, 2s. each. *Magazines*: The *Camb. Review*, the *Granta*, the *Camb. Magazine*, the *New Cambridge*, weekly during term.

THE YEAR 1919–20

BENEFACTIONS. Sir Dorabji Tata, £25,000, and anonymous, £2000, for Engineering School; Sir W. Dunn legacy, £165,000 for Bio-Chemistry; Mrs. Adams's endowment, £4351 for Astronomership; W. G. Fearnsides' Family's Memorial Scholarship, £100 for Clinical Research; £1000 for Tropical Agriculture; P. A. and Mrs. Molteno, £36,000, and Lord Strathcona's estate, £1000, for Inst. of Parasitology; Dept. of Scientific and Indust. Research, £30,000 for Low Temperature Station for Research in Bio-Chem. and Bio-Physics; E. Hopkinson, £1000, and Sir Wm. Mather, £500, for Chair of Thermodynamics; W. S. Browne, £200 for Physiol. Lab.; Anon., £525 for School of English; Lord Queenborough, £500 for Italian Studies; L Tebbutt, £100 for lectures on Administration.

NEW POSTS. Chair of Physical Chemistry, Readership in Estate Management, Lect'ships in Medical Radiology and Electrology, and in Tropical Agriculture.

Among CHANGES IN REGULATIONS were: revision of those relating to the Previous and other examns.; constitution of a Board of Psychological studies; establishment of a Diploma in Archæology, and Certificate of competent knowledge in foreign languages. Regns. for the new Ph.D. degree were sanctioned.

OTHER OUTSTANDING EVENTS. Election of Mr. Balfour as Chancellor; and conferment of Hon. Degrees on many statesmen and scholars in honour of his Installation; election of the Earl of Plymouth as High Steward of the Univ. in place of the late Lord Walsingham, who died Dec. 3, 1919; resignation of the post of Public Orator by Sir T. Sandys after holding the office for 43 years; meeting of the British Medical Assocn. under the presidency of the Regius Prof. of Med., and conferment of Hon. Degrees in connexion therewith.

NUMBER OF STUDENTS (Michaelmas, 1919 and 1920). Undergraduates (men) in residence, 4137, 4776; B.A. students, 187, 268; Research, 50, 89; Naval Officers, 175, 149. Women students at Girton, 166, 175; Newnham, 242, 250.

HONORARY DEGREES CONFERRED. *D.D.*—H. MacC. E. Price; A. W. T. Perowne; T. C. Fitzpatrick; Very Rev. J. G. McCormick; Ven. H. G. Jones; Most Rev. F. Westcott. *LL.D.*—Rt. Hon. Earl of Plymouth; W. S. Hadley; Admirals Sturdee, King-Hall, Wemyss, Madden, Jackson, Keyes, Jellicoe, Beatty, Hall; Generals Pershing, Rawlinson, Birdwood, Wilson, Horne, Diaz, Robertson, Lord Byng; Lieut.-Generals the Earl of Cavan, Currie, Monash; Air-Marshal Trenchard; Air Vice-Marshal Salmond; J. P. Morgan; Field-Marshal Earl Haig; Sir J. E. Sandys; Abbé Breuil; Rt. Hon. D. Lloyd George; A. Bonar Law; J. Austen Chamberlain; H. L. Fisher; Viscount Burnham; Lord Robert Cecil; Sir D. Maclean; J. H. Thomas; G. W. Balfour; J. F. P. Rawlinson; J. Ward; Sir T. C. Allbutt; Jules

Bordet; S. Flexner; P. Giacosa; Sir G. H. Makins; Sir N. Moore; Rt. Hon. and Most Rev. C. G. Lang; Most Rev. W. J. F. Robbards; Rt. Rev. F. Burgess; C. Julius; V. S. Azariah; L. M. Gwynne; Don Alfonso Merry Del Val; A. L. Lowell; J. J. Abel; H. Cushing. *Litt.D.*—H. L. Bergson; C. M. Doughty; E. Gosse; Sir J. G. Frazer. *Sc.D.*—Sir J. J. Thomson, Sir J. Larmor. *M.A.*—O. H. P. Prior; H. McCombie; G. T. Lapsley; E. J. A. Fullerton; G. Sampson.

OTHER DEGREES. D.D., 1; LL.D., 1; Sc.D., 6; Litt.D., 3; B.D., 7; B.A., 755; M.A., 579; LL.M., 6; M.D., 22; M.B., 48; B.Ch., 45; LL.B., 60. *Diplomas*—Pub. Health, 33; Trop. Med., 19; Forestry, 22; Psych. Med., 1; Agric., 34; Geog., 8; Anthrop., 1; Med. Radiology and Electrology, 14.

NUMBER OF WOMEN who passed Tripos examns. in 1920: Maths., Pt. I., 14, Pt. II., 8; Classics, Pt. I., Old Regs., 12, New Regs., 17, Pt. II., 2; Moral Sc. Pt. I., 4, Pt. II., 1; Nat. Sc. Pt. I, 29, Pt. II., 8; Hist. Pt. I., 30, Pt. II., 22; Langs., 25; Econ. Pt. I., 11, Pt. II., 13; Law, Pt. I., 1, Pt. II., 1; English, 33; Mechanical Sciences, 2.

DEATHS. Alex. Macalister, Prof. of Anat., Sept. 2, 1919; L. F. L. Oppenheim, Prof. of Internat. Law, Oct. 7, 1919; E. C. Quiggin, Lectr. in German, Jan. 4, 1920; Baron Walsingham, Dec. 3, 1919; Dr. Laurence Humphry; A. Rose, Fellow of Emm.; J. M. Image, Fellow of Trin.; W. F. Smith, Tutor, St. John's; J. H. H. Goodwin, Bursar of Jesus.

LOCAL LECTURES centres increased from 37 to 65; courses from 42 to 77. Final examn. certificates more than doubled. Attendance at Lectures, 10,376, and Classes, 2197, was greater than before the war. In Jan. 1920 it was decided to raise the fees payable by centres for courses. For the Summer Meeting, 1920, 451 tickets were issued. The main subject was the Literature and Art of Spain. A volume of *Cambridge Essays on Adult Education* was published by the Univ. Press. For note *re* next summer meeting, see under Oxford.

UNIVERSITY OF DURHAM

VISITOR—THE BISHOP OF DURHAM.

CHANCELLOR—The Rt. Hon. J. G. LAMBTON, EARL OF DURHAM, K.G., G C.V.O., P.C., D.C.L.

VICE-CHANCELLOR—DAVID DRUMMOND, M.D., D.C.L.

PRO-VICE-CHANCELLORS—J. S. G. PEMBERTON, M.A., D.C.L.; Sir THEODORE MORISON, K.C.S.I., K.C.I.E., M.A., D.C.L.; F. B. JEVONS, M.A., D.Litt.

PROCTORS—J. A. MENZIES, M.A., M.D.; P. J. HEAWOOD, M.A.

REGISTRAR—H. G. THEODOSIUS, M.A., B. ès L.

LIBRARIAN—E. V. STOCKS, M.A.

DIVISIONS OF THE UNIVERSITY

Durham Division, controlled by the Council of the

DURHAM COLLEGES.

Newcastle Division, consisting of:

THE COLLEGE OF MEDICINE.

ARMSTRONG COLLEGE.

AFFILIATED AND ASSOCIATED COLLEGES

A. Colleges in which students may matriculate, keep terms, and pass examns., and so qualify without coming to England for the B.A., M.A., B.D., D.D., B.C.L., D.C.L., and L.Th. degrees:

CODRINGTON COLLEGE, BARBADOS. Trustees (under the will of Christopher Codrington, who died in 1710)—The Society for the Propagation of the Gospel; Visitor—The Lord Bishop of Barbados; Principal—J. C. Wippell, M.A., B.D.; Prof. of Theology—E. J. Lea, M.A.; Prof. of Classics—W. W C. Dunlop, M.A.; Prof. of Medicine—W. B. Clark, M.B., C.M.

FOURAH BAY COLLEGE, SIERRA LEONE. Founded in 1827 by the Church Missionary Society. In 1918 the Wesleyan Missionary Society became associated with the C.M.S. in the control of the College. Visitor—The Bishop of Sierra Leone; Principal—J. Denton, M.A.; Vice-Principal—W. T. Balmer, M.A. 3 Tutors and 3 Lectrs.

B. Ladies' College, Cheltenham; Queen's College, Harley St., London; Women's Training Colleges, Darlington and Ripon. Women students of 18 yrs. of age who have completed 2 yrs. of study and examn. at any one of these and passed the First Public Examn. in Arts may be allowed to count 2 yrs. kept at the College as 1 yr. towards the B.A. degree.

C. The following associated Theological Colleges:
St. Aidan's; St. Augustine's; Burgh; Chichester; Cumbrae; Dorchester; Edinburgh; Gloucester; Highbury; Islington; Jamaica; St.

John's, Armidale, N.S.W.; Lichfield; Lincoln; Moore, Sydney; Queen's, St. John's, Newfoundland; Salisbury; Selwyn, Dunedin; Truro; Warminster; Bishop Wilson School, Isle of Man; Theol. Depts. of King's Coll., London, and of Queen's Coll., Birmingham.

Students may take in these Colleges courses extending over 3 years, which qualify for the Lic.Theol. Six terms kept in one of these Colleges, after passing the Matricn examn., may be counted in lieu of 6 of the terms required for the B.A. degree in the case of a student who obtains the Lic.Theol.

GENERAL INFORMATION

The Univ. was established by Act of Parliament in 1832 and reconstituted in two divisions in 1908. The College of Medicine, founded in 1832, became associated with the Univ. first in 1852 and more closely, as "The University of Durham College of Medicine," in 1870. Armstrong College was founded in 1871 as the Durham College of Physical Science and assumed its present name in 1904.

The Univ. has no teaching staff apart from those of the Durham Colls., the Coll. of Medicine, and Armstrong Coll. The Council of the Durham Colleges, the Coll. of Medicine, and Armstrong Coll. have respectively full power and authority to regulate teaching and discipline, and to provide for the appointment of all their teachers and other officers.

FACULTIES. At Durham only—Theology and Music; at Durham and Armstrong—Arts and Letters; at Armstrong only—Science and Commerce; at College of Medicine—Medicine.

ADMISSION OF STUDENTS FROM OVERSEAS. The matricn. examn. of Sydney and degrees in Arts of all Univs. of the British Empire are accepted.

DEGREES. B.A., M.A., B.Litt. (obsolete), M.Litt., D.Litt.; B.Sc., M.Sc., D.Sc.; B.D., D.D.; B.C.L., D.C.L.; M.B., B.S., M.D., M.S.; B.Hy., D.Hy.; B.Mus., D.Mus.; B.Com., M.Com.; Ph.D. (v. p. 10).

Diplomas in Foreign Langs., Theol., Psychiatry, Teaching, Public Health; L.D.S., Lic.Theol.

The B.A., B.Sc., or B.Com. may be obtained by a 3 yrs. undergraduate course. For the 1st yr. of the B.Sc. course equivalent study in another Univ., and for the 1st yr. of the B.Com. course 2 yrs. attendance as an evening student may be accepted. For the B.Mus. two public examns. must be passed.

For the M.B. and B.S. at least 1 of the 5 yrs. of Med. study must be spent in the Coll. at Newcastle. The B.Hy. is open to graduates in Med. who have spent 1 yr. in professional study at Newcastle.

The B.C.L. may be taken by examn. by a B.A. of 12 terms standing.

The course for the Diploma in Teaching covers 3 terms after graduation.

The M.A. is open to a B.A. of 9 terms standing who obtained Honours or distinction in the Final B.A. examn. or, after passing this examn., has passed the Dipl. Theol., B.D., B.C.L., M.B. or B.Sc., degree examn., or who qualifies by passing a special examn.

The M.Sc. can be obtained by a B.Sc. of 2 yrs. standing by original work or examn.

The D.Litt. or D.C.L. may be obtained by a B.A. (or B.Litt.) or B.C.L., respectively, of 10 yrs. standing by a sufficient contribution to learning; the D.Sc. by a B.Sc. of 21 terms standing after obtaining the M.Sc.; the D.Mus. by a B.Mus. of 15 terms standing.

For the M.D. a candidate must have had 2 yrs. of practice in a hospl. or Mily. or Naval service after graduation as M.B.

For the D.Hy. 2 yrs. experience of Pub. Health administration or research after obtaining the B.Hy. are necessary.

M.D. Degree Examn. for Practitioners. A person who has been registered by the Gen. Med. Council of the U.K. and in the active practice of his profession for 15 yrs. as a qualified practitioner and is not less than 40 yrs. of age may obtain the M.D. degree without fulfilling any conditions as to residence on passing an examn. instituted for this purpose by this Univ. and held in March and June. Candidates who have not passed previously to their professional examn. an examn. in Arts are required to pass an examn. in Classics and Maths. Natives of India are admissible if they bring evidence of having passed within the preceding year an examn. in Latin.

Degrees, etc., in Theology. The B.D. examn. is open to candidates of 25 yrs. of age who are graduates in Arts (or Letters) of 2 yrs. standing; if of another Univ. they must have obtained the Dipl. Theol. of Durham. The Board of the Faculty may admit also non-graduates who keep three terms at Durham and pass the Dipl. examn.; also, up to the end of 1922, clergymen in Priests' Orders.

The Lic. in Theol. is open to members of the C. of E. only. Nine terms must be kept unless the candidate is a B.A. or holds a higher degree, but terms kept at one of the Theol. Colls. in list C above may be counted.

The Dipl. in Theol. is obtainable by graduates of a Univ. of the British Empire who keep 3 terms at Durham and pass the Dipl. examn. Residence for a year at an approved Australian Coll. may be accepted in lieu of keeping 3 terms at Durham.

The D.D. is open to a B.D. of Durham who is a Master of Arts of 10 yrs. standing on submission of a sufficient contribution to learning.

FEES. Matricn., £2. Examns and degrees, £2 to £10.

PUBLICATIONS. *Univ. Calendar* (Oct.), 3s. 6d.; *Durh. Univ. Gazette*, 4s. annually; *Durh. Univ. Journal* (oldest Univ. Mag. in England), once a term, 1s. 6d.

THE YEAR 1919–20

HONORARY DEGREES CONFERRED. *D.D.*—Rt. Rev. C. Gore; Rt. Rev. J. H. Linton; Rt. Rev. A. H. Anstey; Rev. T. Witton Davies; Rt. Rev. R. S. Hay; Rt. Rev. A. W. Howells. *D.C.L.*—Rt. Hon. E. Shortt; Major-Gen. Sir W. G. A. Bedford; Rev. J. T. W. Stafford; Sir Theodore Morison; C. A. Cochrane. *D.Litt.*—Very Rev. W. R. Inge; G. G. Coulton. *D.Sc.*—G. G. Stoney. *M.A.*—E. W. F. Fraser-Smith; Rev. H. S. T. Gahan; Rev. F. W. North; C. Williams.

OTHER DEGREES, DIPLOMAS, ETC. D.D., 1; B.D., 6; B.C.L., 2; M.D., 11; M.S., 1; M.B., 34; B.S., 31; D.Hy., 1; B.Hy., 5; M.A., 56; B.A., 83; D.Sc., 6; M.Sc., 17; B.Sc., 67; M.Litt., 3; D.Mus., 6; B.Mus., 8; M.Com., 1; B.Com., 2; L.Th., 37; Dip.Th., 16; L.D.S., 3; D.P.H., 6; others, 6.

DURHAM DIVISION

President of Council—J. S. G. PEMBERTON, M.A., D.C.L.

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Secretary of Examinations—A. ROBINSON, M.A., D.C.L.

Prælector—E. G. PACE, M.A.

Treasurer—F. W. RITSON, M.A.

Librarian—E. V. STOCKS, M A.

Hon. Director of the Univ. Observatory—Col. E. H. HILLS, C.M.G., C.B.E., D.Sc., F.R.S. *Observer*—F. SARGENT, F.R.A.S.

PROFESSORS AND LECTURERS

Classics
Cruickshank, A. H., M.A. (Greek and Class. Lit.) Prof.
How, J. H., M.A. (Latin) Prof.
Lowe, W. D., Litt.D. Lectr.
Pestle, E. P., M.A. Lectr.

Divinity and Eccl. History
Walker, D., M.A., D.D. Prof.

Education
Powell, T. W., M.A. Lectr.

Elocution
Hughes, H. D., M.A. Lectr.

English Lang. and Lit.
Ellershaw, H., M.A. Prof.
Colgrave, B , M.A. Lectr.

Hebrew and Oriental Langs.
Guillaume, A., M.A Prof.

History, Ecclesiastical
Whiting, C. E., M.A., B.D., B.C.L. Lectr.
Wallis, C. S., M.A. Lectr.

Liturgiology
Moulsdale, S. R. P., M.A., B.D. Lectr.

Modern Languages
Herdener, C. F., M.A. Prof.
Lambley, Kathleen, M.A. Lectr.
Watkins, Gwendolen, M.A. Lectr.
Thevenot, E. A. M., L.ès L. Asst.
Grosset, R. Asst.

Mathematics
Heawood, P. J., M.A. Prof.
Burchnall, J. L., M.C., B.A. Lectr.

Military Science
Macfarlane-Grieve, A. A., M.C., M.A. Lectr.

Music
Bridge, J. C., M.A., D.Mus. Prof.

Philosophy
Jevons, F. B., M.A., D.Litt. Prof.

Psychology and Logic
Robinson, A., M.A., D.C.L. Prof.

Theology, v. also Div.
Pace, E. G., M.A., B.D.
Tutorial Fellow and Lectr. in Theol. and Hebrew.
Coleman, N. D., M.A.
Lectr. in T. and Hellenistic Greek.
Jones, Donald, B.D.
Lectr. in Christian Evidences.

THE DURHAM COLLEGES

UNIVERSITY. Master—H. Ellershaw, M.A. Censor and Bursar—W. D. Lowe, M.A., D.Litt. Chaplain—E. P. Pestle, M.A.

HATFIELD. Master—F. B. Jevons, M.A., D.Litt. Vice-Master and Chaplain—E. G. Pace, M.A., B.D. Censor—C. F. Herdener, M.A. Bursar—J. L. Burchnall, B.A.

ST. CHAD'S. Principal and Chaplain—S. R. P. Moulsdale, M.A., B.D. Vice-Principal—C. E. Whiting, M.A., B D., B C L. Classical Lectr.—L. A. Body, M.A. Fellow and Tutor—G. N. Bacon, M.A., B.Sc.

ST. JOHN'S. Principal and Chaplain—C. S. Wallis, M.A. Vice-Principal—H. Hughes, M.A. Classical Tutor—P. R. Frost, B.A.

BEDE. Principal—D Jones, B.D. Vice-Principal—A. Oswell, B.A. Lectrs.—T. W. Powell, M.A.; F. Bentley, B.A.

ST. MARY'S (for women). Principal—Rachel Donaldson, M.A. Censor and Tutor—Gwendolen Watkins, M.A.

NON-COLLEGIATE STUDENTS. Censor—J. H. How, M.A.

HOME STUDENTS (Women). Censor—Kathleen Lambley, M.A.

GENERAL INFORMATION

University College was formed at the opening of the Univ.; Hatfield was opened (as Bishop Hatfield's Hall) in 1846, St. Chad's in 1904, St. John's in 1909. Bede College, founded in 1839, was brought into connexion with the Univ. in 1919 as a licensed Hall of Residence for Undergraduates. St. Mary's College, opened in 1899, is the residence for women.

LIBRARY, 38,000 vols., including rare theological and patristic books. MUSEUM with a nearly complete collection of British birds. OBSERVATORY with almucantar, etc.

FELLOWSHIPS, 3 Tutorial, £200 to £300, and 1 ordinary, £200, open only to candidates who have kept terms and taken B.A. in Durham Division.

FEES. Including admission, tuition, examns., board and lodging, subscriptions and gratuities, at Univ. College, £112 : 10s. p.a.; St. John's, £100; Hatfield, St. Chad's, St. Mary's, £90. Non-Coll. students pay £21 p.a., Univ. fees including club subscriptions.

THE YEAR 1919–20. *New Lectureships* in Hellenistic Greek, German, Liturgiology, Eccl. Hist., Christian Evidences. *Summer Courses* in French, Geog., Maths., Hist. *Lecture Conference* for Works Directors, Managers, Foremen, etc. *Number of Students* matriculated for session 1920–21—96, including 16 women. *Retirement*—Prof. H. W. Watkins.

COLLEGE OF MEDICINE, NEWCASTLE-UPON-TYNE

Chairman of the Court of Governors—W. J. SANDERSON, J.P.

President of the College and Vice-Chairman of the Court of Governors—DAVID DRUMMOND, C.B.E., M.A., M.D., D.C.L.

Registrar—Prof. R. HOWDEN, M.A., M.B., D.Sc.

Treasurer—C. A. COCHRANE, M.A., D.C.L., J.P.

PROFESSORS, LECTURERS, ETC.

Anatomy
Howden, R., M.B., C.M. Edin., M.A., M.B., D.Sc. Prof.
Lickley, J. D., M.D. Glas. Demr.
Freedman, W. A., M.B., B.S. Demr.
Whyte, A. H., M.B., B.S. Demr.
Gilmour, J., M.B., B.S., F.R.C.S. Demr.
Hewitson, W. A., M.B., B.S. Demr.
Clay, J., C.B.E., M.B., B.S., F.R.C.S. Appl. Anat. Lectr.

Bacteriology v. Path. Comp.

Biology
Potter, Rev. M. C., M.A. Camb. and Durh., Sc.D. Camb., F.L.S. (Botany) Prof.*
Meek, A., M.Sc., F.Z.S. (Zool.) Prof.*

Chemistry
Bedson, P. P., D.Sc. Lond. and Durh., B.Sc. Manc., M.A., F.I.C. Prof.*

Children, Diseases of
Ogden, O. W., M.D. Lectr.

Dermatology, Clinical [Lectr.
Bolam, R. A., O.B.E., M.D.
Thompson, S., M.B. Asst.

Hygiene v. Pub. Health

Laryngology & Otology, Clinical
Whillis, S. S., M.D., B.S. Lectr.
Wilson, W. F., M.B., B.S. Asst.

Materia Medica and Pharmacology
Hume, W. E., C.M.G., M.A., M.D., B.C. Camb., F.R.C.P. Prof.

Medical Jurisprudence
Hardcastle, W., M.B. Lond., B.Hy., D.P.H. Durh. Prof.

Medicine, Principles and Practice of
Drummond, D., C.B.E., M.A., M.D Dub and Durh., D.C.L. Prof.
Oliver, Sir T., M.D. Glas. and Durh., LL.D. Glas., D.Sc. Sheff., M.A., F.R.C.P. Prof.

Medicine, Clinical
Prof. Beattie (v. Therap.) Lectr.
Prof. Hume (v. Mat. Med.) Lectr.
Drummond, H., M.D., B.S. Lectr.
Parkin, A., M.D., F.R.C.S. Lectr.
Hall, G., C.M.G., M.D., B.Sc. Lectr.
Allison, T. M., M.D., B.S. Lectr.

Also in Armstrong Coll.

Patterson, D. W., O.B.E., M.B., B.S. Lectr.
Hunter, T. C., M.D., B.S. Lectr.

Midwifery and Gynæcology
Lyle, R. P. R., M.A., M.D. Dub. and Durh., B.Ch., B.A.O. Dub. Prof.
Murray, E. F., M.D. St. And., F.R.C.S. Lectr.

Ophthalmology and Clin. Ophth.
Wardale, J. D., M.A., M.B., B.S. Prof.
Arkle, J. S., M.B. Asst.

Pathology and Clin. Path.
McDonald, S., M.D., F.R.C.P. Edin., M.A. Prof.
Shaw, A. F. B., M.D. Edin. Lectr.
Crawford, G. J., M.B., B.Ch., D.P.H. Manc., B.Sc. Belf. Lectr.

Pathology, Comp., and Bacteriology
Hutchens, H. J., D.P.H. Ox., M.A. Heath Prof.
Clayton, F. H. A., M.D. Lectr.
Buckell, M. A. C., M.B. Lond., D.P.H. Lectr.
Warren, S. H., M.R.C.S., L.R.C.P., D.P.H. Lectr.
Clark, Helen G., M.D., B.S., B.Hy. Lectr.

Pathology, Medical
Prof. Hume (v. Mat. Med.) Demr.

Pathology, Surgical [Demr.
Drummond, H. (v. Surg. Clin.)

Physics
Stroud, H., M.A. Camb. and Durh., D.Sc. Lond. and Durh., F.Ph.S.L. Prof.*

Physiology [Prof.
Menzies, J. A., M.D. Edin., M.A.
Atkinson, Mildred, B.Sc. Lectr.
Clark, G. A., M.B. Demr.

Psychological Medicine
Middlemass, J., M.A., M.D., B.Sc. Edin. Prof.

Public Health
Kerr, H., O.B.E., M.D. Edin., D.P.H. Prof.

Surgery
Morison, J. R., M.D., LL.D. Edin., M.A., F.R.C.S. Prof.
Angus, H. B., M.B., M.S., F.R.C.S. (Lectr. in Clin. S.) Prof.
Turner, G. G., M.B., M.S., F.R.C.S. (and in Clin. S.) Lectr.

Clinical Lectrs :
Martin, A. M., M.B., B.S.
Leech, J. W., M.D., M.S.
Clay, J. (v. Anat.)
Willan, R. J., M.V.O., M.B., M.S., F.R.C.S.
Drummond, Hamilton, M.B., F.R.C.S Edin.
Pybus, F. C , M B., M.S , F.R C S.
Johnston, H. M., B.A., M.B. Belf., F.R.C.S.
Barclay, J. H., M.D., M.S., F.R.C.S.
Hodgson, N., M.B.

Therapeutics
Beattie, T., M.D., F.R.C.P. Prof.

Electrotherapy
Arnison, W. D., M.D., B.S. Lectr.

Zoology v. Biol.

GENERAL INFORMATION

Instruction in Biology, Chemistry, and Physics is given at Armstrong College; in Clinical Medicine and Surgery, etc., in the Infirmary and other hospitals.

LIBRARIES, 10,000 vols. MUSEUMS : Anat., Hygiene, Mat. Med., Path.

Also in Armstrong Coll.

SCHOLARSHIPS open to graduate students of the Coll.: £25, £40 (Durh. graduates only), £200.

FEES. For Tuition, 5-years course for M.B., B.S., about £200, including Hospl. Fees, Practical Midwifery, Instruction in Fevers and Vaccination, and Students' Union; 4-years course for L.D.S. about £145. Examns. for M.B., B.S., £30; L.D.S., £12. Degree fees for M.B., B.S., £12 : 12s.; L.D.S., £3.

THE YEAR 1919–20

NUMBER OF STUDENTS, 403, including 14 part-time, 18 graduate and research, and 70 women (in 1917–19: 191, 289, including 44, 63 women). New entries for 1920–21, 95.

NUMBER OF DEGREES obtained, 52; licenses, 3.

DEATHS AND RESIGNATIONS. Prof. R. A. Bolam, r.; Prof. T. E. Hill, r.; Prof. S. C. Dyke, r., on apptmt. to St. Thomas's, London; W. G. Richardson, r.; S. P. Bedson, r., to take up work at Lister Inst., London; A. Smirthwaite, d.

ARMSTRONG COLLEGE, NEWCASTLE-UPON-TYNE

President of the College—Rt. Hon. VISCOUNT GREY OF FALLODEN, K.G., P.C., D.C.L.

Chairman of Council—Sir HUGH BELL, D.C.L., LL.D.

Vice-Chairman of Council—PERCY CORDER.

Principal—Sir THEODORE MORISON, K.C.S.I., K.C.I E., C.B.E., M.A.

Registrar—J. Y. T. GREIG, M.A.

Warden of Women's Hostel—CLEMENTINE M. HAWTHORN, B.Sc.

PROFESSORS, LECTURERS, ETC.

Accounting
Bell, Albert — Lectr.

Agriculture and Rural Economy, v. also Forestry
Gilchrist, D. A., M.Sc. — Prof.
..... — Lectr.
Wheldon, R. W., B.Sc. — Lectr.
Pawson, H. C. — Lectr.

Agricultural Botany
Anderson, Miss D., B.Sc. — Lectr.

Agricultural Chemistry
Collins, S. H., M.Sc. — Adviser & Lectr.
Hall, A. A., M.Sc., Ph.D. — Lectr.

Agricultural Zoology
Gray, R. A. H., M.A., M.Sc. — Adviser & Lectr.
Puckle, P , M.Sc. — Lectr.

Art [Prof. and Dir. of School.
Hatton, R. G., A.R.C.A. Lond. (4 Assistants)

Biology v. Bot., Nat. Hist.

Botany, v. also Agric.
Potter, M. C., M.A., Sc.D. Camb., F.L.S. — Prof.*
Blackburn, Miss K. B., M.Sc. — Demr.
Bartlett, A. W., M.A., B.Sc. — Lectr.
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Chemistry, v. also Agr.
Bedson, P. P., M.A., D.Sc. — Prof.*
Garrett, F. C., D.Sc. — Reader.
Smythe, J. A., D.Sc., Ph.D. — ,,
Madgin, W. M., M.Sc. — Lectr.
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Mallen, Miss C. E. — Lectr.
Hanby, T., B.Sc. — Lectr.
Leitch, Miss G. C., D.Sc. — Lectr.
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Macdonald, J., M.A. — Deputy Prof.
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Waddell, W. G., M.A. — Lectr.

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Stevenson, Miss E. F., M.A. — Lectr.
Jebb, Miss G. E. M. — Lectr.
Opie, R., B.Com. — Asst. Lectr.

* Also in Coll. of Med.

Education
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Melville, Ellen L., M.A. Mistress of Method.
Brown, V., B.Sc. Lectr.
Bailes, Stella, B.Sc. Lectr.

Engineering, v. also Met., Nav. Arch.
Hawkes, C., R.N. (retd.) Prof.
Morrow, J., M.Sc., D Eng. Reader.
Hardy, G. F., M.Sc. Lectr.
Holmes, R. W., B.Sc. Lectr. & Demr.
Hall, J., A.M.I.E.E. Lectr. & Demr.
Dixon, J. T. Lectr. & Demr.
Davies, A. J. Lectr.
Martin, L. Lectr.

Engineering, Electrical [Prof.
Thornton, W. M., D.Sc., D.Eng.
Downie, F H., O.B E., B.Sc. Lectr.
Harle, J. A., B.Sc. Lectr.

English
Mawer, A., M.A. J. Cowen Prof.
Wragge, Sybil, B.A. Engl. Lit. Lectr.
Thompson, A. Hamilton, M.A. Lectr.

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Hunter, R. W. Lectr.

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Hickling, G., D.Sc. Simpson Prof.
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Hawkes, L., M.Sc. Lectr.

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Fletcher, M., M.A., F.G.S. Lectr.

History, Modern
Vickers, K. H., M.A. Prof.
Bradshaw, F., M.A., D.Sc. Reader.
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History, Ancient, v. Classics

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Goldsbrough, J. R., D.Sc. Lectr.
Miles, W.A., B.A. Lectr.

Metallurgy, Mining and Surveying
Louis, H., M.A., D.Sc., F.I.C., F.G.S. Prof. W. Cochrane Lectr.
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Contodimos, B.D., B.Sc. Lectr.

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Anger, H. L., Ph.D. Lectr.
Tomlinson, Mrs. M. W. W. Lectr.
Coundouroff, H. G. Lectr.
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Flattely, F. W. Lectr.
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Alexander, F. H., M.Sc., M.I.N.A. Reader.

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Tunnell, Mrs. S. E. Lectr.
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Zoology v. Nat. Hist.

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PUBLICATIONS. *Calendar* (Sept.), 2s. 6d.; *Annual Reports* (Oct.).

THE YEAR 1919–20

BENEFACTIONS. Cochrane Playing Fields.

NUMBER OF STUDENTS. Full-time 797, part-time 491, including 336 women. Preparing for first degree in Arts, 117; Commerce, 48; Pure Science, 214; Applied, 224; for Diplomas, 219.

RETIREMENTS AND RESIGNATIONS. Prof. Loveday, on apptmt. as Principal, Univ. College, Southampton; Profs. M. R Wright, T. F. Sibley, S. Smiles, S. Mangham.

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ACCOUNTANT—G. R. BRENCH.

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REGISTRAR—A. E. WHEELER.

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Haydon, R. W. Lectr.
Archibald, C. F. Lectr.
Ruston, A. G., B.A., B.Sc. Lond., D.Sc. (Farm Econ.) Lectr.
Galt, A. S. (Hortic.) Lectr. & Organr.
Parton, F. W. (Poultry) Lectr. & Demr.
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Robertson, G. C. A., M.A., B.Sc. Aberd. Asst. Lectr. & Demr.

Dist. Lectrs.:

Thompson, H., B.Sc. Manc., B.Sc.
Johnstone-Wallace, D. B., B.Sc. Durh.
Strachan, J., M.A., B.Sc. Aberd., N.D.A.
Lynn, J. C., B.Sc.
9 Instrs. and Asst. Instrs. in Dairying, Hortic. and Farriery

Agric. Botany and Forestry

Millard, W. A., B.Sc. Bris. Lcetr.
Scott, Lorna, B.Sc. Lond. Asst. Lectr.
Bennet, F. T. Asst. Lectr.
Burr, S. Demr.

Agric. Chemistry

..... Prof.
Godden, W., B.Sc. Lond., A.R.C.S., F.I.C. Lectr.
Comber, N. M., B.Sc. Lond., A.R.C.S., A.I.C. Asst. Lectr.
Hanley, J. A., Ph.D. Mun., A.R.C.S. Asst. Lectr.

Agric. Zoology

Taylor, T. H., M.A. R.U.I. Lectr.
Thompson, H. W., M.Sc. Asst. Lectr.

Anatomy

Jamieson, J. Kay, M.B., C.M. Edin. Prof.
..... Demr.
Law, F. R., M.B. Lond. Demr.

Morton, W. C., C.B.E., M.A., M.D. Edin. (H.).

Bio-Chemistry v. Physiol.

Botany
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Wager, H., D.Sc., F.R.S. (Mycology) Hon. Lectr.
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Armstead, Miss, M.Sc. Manc. (R.).
Pearsall, Mrs. W. H., M.Sc. Demr.
Priestley, Mrs. (H.)

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Lowson, W., B.Sc. Lond., B.Sc., F.I.C. (Analyt. C.) Lectr.
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Whitaker, H., M.Sc. (R.).
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Clark, C. H. D., B.Sc. Demr.
Hume, J., B.Sc. Demr.

Chemistry, Physical
Dawson, H. M., B.Sc. Lond., Ph.D. Gies., D.Sc. Prof.

Chemistry, Organic
Cohen, J. B., B.Sc. Manc., Ph.D. Mun., F.R.S. Prof.
Dutt, P. K., M.A. Calc., M.Sc., A.I.C. Asst. Lectr. & Demr.
Shore, Agnes Demr.

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Connal, B. M., M.A. Ox. Prof.
..... (Class. Archæol.) Lectr.
Bibby, F. E., M.A. Camb., M.A. Asst. Lectr.
Barratt, A. J., B.A. Asst. Lectr. (temp.).

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Mawer, J. W., L.D.S. Lectr. & (C.)

Dental Mechanics
Rippon, C., L.D.S. Lectr.

Dental Metallurgy
Lowson, W., B.Sc. Lond., B.Sc., F.I.C. Lectr.

Dental Surgery [Lectr. & (C.).
Phillips, G. A., L.D.S.

Dental Surgery, Operative
Hey, S. D., L.D.S. Lectr. & (C.).
Leigh, P. T., L.D.S. (C.).
Marston, W., L.D.S. (C.).
Saville, D., L.D.S. (C.).
Bentley, H. R., L.D.S. (C.).
Thorburn, W. S., L.D.S. (C.).
Mahoney, H. A., L.D.S. (C.).
Cocker, J. P , L.D.S. (Demr. Dent. Histology) (C).
Grundy, G. C., L.D.S. (C.).
Iles, G. D., L.D.S. (C.).
Rogerson, E. A., L.D.S. Tutor.

Dentistry, Clinical
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Jones, J. H., M.A. Wales Prof.
Shimmin, A. N., M.A. Manc. Lectr.
Dower, R. S., M.A. Camb. (Social Organization) Lectr.
..... (Ec. Hist.) Lectr.
..... (Statistics) Lectr.
..... (Acctcy.) Lectr.
Happell, A. C., B.A. Camb. Lectr.
Purdon, Eileen Tutor.

Education
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Welpton, W. P., B.Sc. Lond. Lectr.
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Wynn-Jones, Ll., Ph.D. (Expl. E.) Lectr.
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Holgate, Miss J., B.A. Asst. Lectr.
Goulding, Miss S. M. Asst. Lectr.
..... Art Teacher.
Hoggett, T. J., Mus.B. Durh. Music, etc.
Wall, Miss E. M. Needlework.

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Goodman, J., M.I.C.E., M.I.M.E. Prof
Gilchrist, J., B.Sc. Edin., A.M.I.C.E. Lectr.
Naylor, T. M., B Sc. Manc., A.M.I.C.E., A.M.I.M.E. Asst. Lectr.
Mitchell, J , B.Sc. Lond. Asst. Lectr
Colles, C., B.Sc. Demr.
Somerscales, A. Demr.
Kelly, H. C , B.Sc. Tech. Demr.
Richardson, S. G. Demr.

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French, W. E., A.M.I.C.E. Lectr.
Craig, D., B.Sc. Asst. Lectr. & Demr.

English Lang. and Lit.
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Tolkien, J. R. R , B.A. Ox. Reader in E. Lang.
Taylor, A. B., B.A. Asst. Lectr.
Davis, H. J., M.A. Ox. (Engl. Lang.) Tutor.
Cowling, G. H., M.A. Asst. Lectr.

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Barbier, P., M.A. Lond. Prof.
Gunnell, Doris, M.A., D. de l'U. Paris Lectr.
Soltau, R. H., M.A. Ox. Asst. Lectr.
Murray, Jessie, M.A. Aberd. Asst. Lectr.

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Fawcett, C. B., B.Litt. Ox., M.Sc. Lond. Reader.
Heslop, Mary C., M.Sc. Asst. Lectr.

Geology
Kendall, P. F., M.Sc., F.G.S. Prof.
Gilligan, A., D.Sc , F.G.S. (Petrology) Reader.
Versey, H. C., M.Sc. Asst. Lectr.

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Gough, C. E., Ph.D. Basle Lectr.
Caldwell, Mary C., B.A. Asst. Lectr.
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Lightley, J. W., M.A. Recog. Teacher at Headingley Coll.
Blomfield, W. E., B.A., Ph.D., at Rawdon Coll.

History
Grant, A. J., M.A. Camb. Prof.
Cooke, Alice M., M.A. Manc. Reader.
Dainton, A. H., M.A. Ox. Asst. Lectr.

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Hughes, J. D. I., M.A., B.C.L. Ox.
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Burrill, H. R., LL.B. (p.t.) Lectr.

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..... Asst. Lectr.

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Metallurgy v. Tech.

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..... Lectr. in Met. M. and Ore Dressing.
Bentham, J. Colliery Electrician.

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Spanish Lang. and Lit.
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Technology v. *infra*

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Medicine

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Dental Science v. *supra*

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..... Demr. (H).

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..... (H) in Clin. P.
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Gruner, O. C., M.D Lond (H.) in P
..... (R.).

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Collinson, H, C B, C.M G, M.B., M.S Lond, F R.C.S. Lectr

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Maxwell Telling, W. H., M D. Lond, F.R C P. ((C.) in Clin. Med) Lectr.
Gough, J. H (P. and M.M) Demr.
Vining, C. W., M D., D.P.H. (Pharmacology) (H.).

Vaccination [Instr.
Bacon, A T., L.R.C.P.E., M.R.C.S.

Venereal Diseases
Bibby, J P., M B Lond. (C.).

Technology

Coal, Gas, and Fuel Industries with Metallurgy
Cobb, J. W., C.B.E., B.Sc. Lond., B.Sc., F.I.C. Livesey Prof.
Hodsman, H. J., M B.E, M.Sc., F.I.C. (Gas Chem) Lectr.
Houldsworth, H. S., M Sc. (Refractory Materials) (R.) & Asst. Lectr.
Summers, P. F, A.R S.M. (Metall.) Asst. Lectr.

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Parker, A., D.Sc.
Kerr, H.
Townend, F. S., B.Sc. Lond.
Howarth, G. B., B.Sc.

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Perkin, A. G., F.R.S., F.I.C. Prof.
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King, P. E. (Dyeing) Lectr. & (R.).
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Davis, C., B.Sc. Demr.

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Hey, A. M., B.Sc. Leeds Demr.
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Textile Industries

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Priestman, H. Lectr.
Hollis, T. Lectr.
Yewdall, A. Lectr
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Pickles, F. Lectr.
Farley, W. A. Asst. Lectr.
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Technical College, Huddersfield (Principal—J. F. Hudson, M.A., B.Sc.). Similar exemption for B.A., B.Sc. (including Engin.), and M.B. and Ch.B.

GENERAL INFORMATION

The Leeds School of Medicine, founded 1831, and Yorkshire College, established as a College of Science in 1874, were united in 1884. The College formed part of the Victoria Univ. from 1887 to 1904, when a Univ. was established by Royal Charter in the city of Leeds.

Library, about 40,000 vols. Museums: Anat., Colour Chem. and Dyeing, Materia Med., Path., Textile, Zool. Laboratories: Agric. Chem., Animal Nutrition Research, Botany, Chem., Colour Chem. and Dyeing, Engin. (Elec., Civ., Mech.), Geol., Leather Industries (including Procter Internat. Research), Metallurgy and Fuel, Mining, Path. and Bacteriology, Physics, Physiol., Textile (116 looms), Zool. Observatory, 18½″ reflector telescope. Farm, 312 acres, including Dairy School. Hospitals available for Clinics: Infirmary (520 beds) and several others; Asylum (2000 inmates).

Faculties. Arts (including Economics and Law), Science, Technology (including Agric., Coal Gas and Fuel with Metallurgy, Colour Chemistry and Dyeing, Engineering—Civ., Elec., Mech.,—Leather Industries, Mining, Textile Industries), Medicine (including Dentistry).

Degrees. Obtainable after a 3 yrs. course starting from matricn.—B.A., B.Sc. (4 yrs. if Supplementary Textile Studies or Colour Chemistry be taken), B.Com., LL.B.; after 5 yrs., M.B., Ch.B., B.Ch.D.

Subject to a minimum attendance in this Univ. of 2 yrs., members of other Univs. requiring residence as a condition of graduation may be permitted to

count their studies and examns. (other than the Final examn.) therein towards graduation in Leeds.

Honours in Mining or Gas Engin. or Fuel and Metall. involve 1 yr. of research or special study after taking the ordinary degree; in Leather Manuf., 4 yrs. study.

Supplementary Textile studies may be combined with a B.A. or B.Com. course. Any of the other Tech. subjects may be taken in a B.Sc. course. The Law Dept. prepares students for the Bar and Solicitors' examns. as well as for the Univ. degrees.

HIGHER DEGREES. M.A., M.Sc., LL.M., M.D., Ch.M., M.Ed., 1 yr. after the bachelorship. Graduates of approved Univs. (all the chief Univs. of the world, including the Univs. and Colls. recognized by the Assocn. of Amer. Univs.) may obtain the M.A., Ph.D. (v. p. 10), or M.Sc. by 2 yrs. of research. Masters of Arts or Science of this Univ. may obtain the Litt.D. or D.Sc. 6 yrs. after the bachelorship.

Graduates of other Univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as graduates from the date of original graduation.

DIPLOMAS. In Education, for graduates, 1 year or 2 yrs. For Teachers of French or German, 1 yr. course in Methods of Teaching and Phonetics. In Commerce, 2 yrs. (after matricn. or its equivalent). In Social Organization and Public Service, 2 yrs. In Geography, 1 yr. or 2 yrs. In Engin., Fuel and Metall., Dyeing, Textiles, Leather, 3 yrs., reducible under certain conditions to 2. In Gas Engin. or Fuel and Metall., special for graduates, 1 yr.; for apprentices, part-time, 4 yrs. In Colour Chem. and Dyeing, for apprentices, part-time, 5 yrs. In Public Health, 9 mos. In Psych. Med., 6 mos. In Dent. Surg., 4 yrs., including 2 in Univ.

Agric. Students are prepared for the National Diploma.

FEES. Matricn., £2. Registration, £2. Composition fees for tuition (including Union): Arts, £23 a session; Science, £31; Technology, £35; Agric. (other than degree students, who pay the Science fee), winter course, £15; summer course, £7 · 10s.; Law Interm. course, 12 gs.* a session; Final course, 20 gs.* Course for Dipl in Educn., £17; Dipl. in Social Organization, £20. Medicine: complete course for M.B., including hospl. practice, £165. Dentistry (excluding Pupilage): £80; Dipl., £90 . 10s.; Degree, £117. Research fee, 7 gs. a session. Exams.: Arts, Science, etc., £4 each; Medicine (including graduation), £15; Dentistry, B.Ch.D., £13; L.D.S., £10. Graduation fee, £5.

SCHOLARSHIPS, ETC., FOR GRADUATES. Fellowships, £200 for one year, renewable, for research in Gas, and £100, renewable, in Col. Chem.; also £150 for 2 yrs. for research and advanced study; £70 Scholp. for research in Arts Faculty; £45 for advanced study in Greek or Latin; £60, Colour Chem. and Dyeing; £20 (three), in Textile Dept.; £25, Forensic Med. and Hygiene; £150 for 3 yrs. for Textile Research (preference to graduates in Science or Tech. and to natives or residents of Bradford, but not restricted to members of Leeds Univ.).

RESIDENCE. Two hostels for men and 4 for women. Fees, £47 to £64 a session. A site of 160 acres on the outskirts of the city has been acquired for hostels for men and women students. From Oct. 1921 fees will be, probably, for men, £73; for women, £56 to £65.

* Under consideration.

UNIVERSITY EXTENSION. Lecture courses and Tutorial classes are provided in co-operation with the Workers' Educnl. Assocn. and Local Education Authorities, and an Annual Summer School in connexion therewith was instituted in 1919.

The Annual Yorkshire Summer School of Geography, instituted by the Univ. in co-operation with Sheffield Univ. and Armstrong College and with the help of local authorities, lasts about 3 weeks. Certificates are granted.

In connexion with the Agric. Dept. a considerable part of the time of lecturers of the Univ. is devoted to work in local centres.

PUBLICATIONS. *Calendar* (Sept.), 2s.; Annual Reports of the Univ. and of Tech. Depts.

THE YEAR 1919–20

BENEFACTIONS. Donations to Development Fund, £16,385; Sir Swire Smith Fellowship for advanced work, £3109 endowment; Clothworkers' Company, £6385 for buildings and equipment in Textile and Dyeing Depts.

NEW BUILDINGS, ETC. Dept. of Educn; extension of Leather and Physics Depts. and Library accommodation; temp. accommodation for Phys. Chem. and for Dental School; Drawing Office for Engin Dept; Botanical Lab.; Addl. Lab. for Colour Chem., hostels, 1 for women and 2 for men

NEW POSTS Chair of Physical Chem; Readerships in Engl, Applied Maths., Mediæval Hist., Geog., Petrology, Anc Hist, and Class. Archæol.; Lectureships in Maths., Physics, Exp. Educ., Class Archæol., Physiol., Bio-Chem., Path., Exp. Physiol., Path of Indust Diseases, Farm Econs., Vet. Hygiene; Staff Tutorship of Tutorial Classes (2); Tutor in Engl.; Asst. Lectrs. in Engl, German, Textile Design, Geog, French (2), Hist.; Clin. Lectr. in Venereal Diseases; Demrs in Physics (2); Asst. Demrs in Physics (2); Research Assts in Physics, Textiles, Chem.; Instr in Horticulture; Demr. in Path. and Bact.

CHANGES IN ORDINANCES, ETC. Geog included as a subject of Interm. and Final courses and examns. for B.A., B.Com., and (Interm. only) B.Sc. degrees; Honours School of Geog. (B.A. Hons.) instituted; Zool and Bot. substituted for Biol. for First M.B. (Part II.) examn.; separate Honours Schools in French Lang. and Lit. and in German Lang. and Lit. instituted; Honours School in Law instituted; revised Ordinances for degrees in Law and in Commerce; degree of M.Ed. instituted; M.A. and M.Sc. Ordinances modified so as to permit persons who are not graduates of an approved Univ. to become eligible, under certain conditions (including 3 yrs. advanced study or research), for M.A. and M.Sc.; Diploma for Teachers of Geog. instituted.

OTHER DEVELOPMENTS. Appointments Board with full-time Secy.; modified course in 1st yr. of undergraduate residence in order that students who have taken Advanced courses at Secondary Schools may not be required to repeat work already done at school.

OTHER IMPORTANT OCCURRENCES. Visits of Prof. W. Sedgwick, Head of the Dept. of Pub. Health at Massachusetts Inst. of Tech., the Univ. Grants Committee, and Master Wardens and others of the Worshipful Companies of Clothworkers and of Drapers; public lectures on music, art, hist., lit., and science.

HONORARY DEGREES CONFERRED. *Litt.D.*—C. J. Holmes; *LL.D.*—J. R. Ford, C. Lupton, John Mews, Gen. Sir H. Plumer, Earl Haig, Canon J. N. Dalton, P. M. Evans, J. Bickersteth, W. H. Barber; *D.Sc*—J. G. Baker, Prof. W. H. Bragg, Admiral Sir H. B. Jackson, Lieut.-Gen. Sir A. Keogh, Sir Almroth Wright; *M.A.*—F. V. Hall.

OTHER DEGREES. B.A.—67; B.Sc.—63; M.B., Ch.B.—7; B.Com.—2; LL.B.—3; M.A.—11; M.Sc.—16; M.D.—4; D.Sc.—3.

NUMBER OF STUDENTS. Full-time, reading for first degree, 958, including 273 women; higher degree or post-grad diploma, 24 (women, 12); other diplomas, 376 (w. 30). Part-time, reading for first degree, 17 (w. 4); higher degree or post-grad. dipl. and other research students, 22 (w.7); other diplomas 33 (w. 24). Evening students, 256.

STUDENTS FROM ABROAD. Australia, 21; S. Africa, 7; India, 5; Serbia, 5; Japan, 5; France, 4; Sweden, 4; China, 3; other countries, 10.

EXTRA MURAL WORK. Extension lectures on Engl Lit attended by 150 students; Tutorial Classes, 27, attended by 608; Summer School for T.C. students, 146; Summer School of Geog., 61, 411 Agric. and Hortic. lectures at 146 centres.

UNIVERSITY OF LIVERPOOL

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. EARL OF DERBY, K.G., G.C.V.O., C.B., LL.D.

PRO-CHANCELLORS—H. R. RATHBONE, M A , President of the Council ; J. W. ALSOP, O.B.E., LL.D., B.A

VICE-CHANCELLOR—J. GEORGE ADAMI, C B E , M D , F.R.S.

TREASURER—C. SYDNEY JONES, M.A.

REGISTRAR—EDWARD CAREY, LL.B

BURSAR AND ASSISTANT REGISTRAR—J PRYCE PARRY

LIBRARIAN—J. SAMPSON, M.A., D.Litt

PROFESSORS, LECTURERS, ETC.

(H. = Honorary Lectr.)

Anatomy

..... Derby Prof.

Simpson, G. C. E., B.A , B.Sc., M.B. Assoc. Prof.

Douglas-Crawford, D., M.B., C.M. Edin., F.R.C.S. (Applied and Surg. A.) Independent Lectr.

Roberts, John Lloyd, M.D., B.S., B.A., B.Sc , F.R.C.S., (Applied and Med. A.) Independent Lectr.

Broad, W. H., M.D. (Physical Anthropology) Lectr.

Richards, D. M. Jr. Lectr. & Sr. Demr.

4 Asst. Demrs.

Anthropology, Social [Prof.

Frazer, Sir J. G., M.A., D.C.L., Litt.D., LL.D. Camb., F.B.A.

Archæology, v. also Palæog. and Associated Institutions

..... Prof.

Peet, T. E., M.A. Ox. (Egyptology) Brunner Prof.

Garstang, J , D.Sc., M.A., B.Litt. Ox., F.S.A. (Methods and Practice of A) Rankin Prof.

Barnard, F. P., M.A., D.Litt. Ox., F.S.A. (Mediæval A.) Reader.

Newberry, P. E., M.A (Egyptian Art) Reader.

Architecture, v. also Civ. Design, Engin.

Reilly, C. H., O.B.E., M.A. Camb., F.R.I.B.A. Roscoe Prof.

Budden, L. B., M.A., A.R.I.B.A. Senr. Lectr.

Cole, E. R. F., A.R.I B A. (Rendering, etc.) Lectr.

Marshall, J. E., M.S.A., M.R.S.I. (Building Constn., etc.) Lectr.

Scott, G. Gilbert, A.R.A., F.R.I.B.A. (Eccl. Archit) Reader.

Miller, B. A., A.R.I.B.A. (Design) Junr. Lectr.

Williams, J. W. (Constrn.) Junr. Lectr.

Allen, C. J. (Modelling) Recog. Teacher.

Astronomy
Plummer, W. E., M.A. Ox., F.R.A.S. Reader.

Bacteriology v. Med.

Bio-Chemistry [Johnston Prof.
Ramsden, W., M.A., D.M. Ox.
Coope, R., M.D., Ch.B., B.Sc. Junr. Lectr.

Botany [H. Gaskell Prof.
Harvey-Gibson, R. J., C.B.E., M.A. Aberd. and Edin., F.R.S.E., D.L., J.P.
Blackwell, Elsie M., M.Sc. Demr. & Lectr.
Knight, Margery, M.Sc. ,,
Fry, Phyllis, B.Sc., A.R C S Demr. & Junr Lectr.

Celtic v. Welsh

Chemistry, v. also Bio-C
Baly, E. C C., C.B.E., M.Sc , F.R.S. (Inorg. C.) Grant Prof.
Heilbron, I. M., Ph.D , D.Sc. Glas., F.I C. H. Harrison Prof.
Lewis, W. C. McC., M.A. Belf., D.Sc. (Physical C.) Brunner Prof.
Thomas, J. S., D.Sc. (Analyt. C.) Senr. Lectr.
Kay, F. W., M.Sc. Manc., Ph.D. Berl. (Applied Organic C.) Senr. Lectr.

Junr. Lectrs. and Demrs.:
Guthrie, F. C., M.A. (Inorg.).
Edwards, D. M., B.Sc. (Inorg.).
Griffith, R. O., M.Sc. (Phys.).
West, Helen, M.Sc. (Organ.).
Shutt, W. J., M.Sc. (Phys.).
Codd, L. W., B.A. (Phys.)
Doran, W., B.Sc., A.I.C. (Organ.).
Keffler, L. P. G., M.Sc. (Inorg.).
Nance, J. T., M.A. ,,
Occleshaw, V. J., M Sc. ,,

Chemistry, Pub. Health
Roberts, W. H., M.Sc. Assoc. Prof.
Jones, E. Gabriel, M.Sc., F.I.C. Lectr.

Chinese
Parker, E. H., M.A. Manc. Reader.

Civic Design
Abercrombie, L. P., M.A., A.R.I B.A. Prof.

Special Lectrs.:
Brodie, J. A., Assoc. Prof., M.Eng., P.I.C.E., M.I.M E. (Civic Engin.).
Kelly, S. A., F.S.I. (Civic Engin.).
Mawson, T. H., Hon. A.R.I.B.A. (Landscape Design).
Clarke, J. J , M.A (Civic Law).

Classics
Pearson, A. C., M.A., Litt.D. (Greek) Gladstone Prof.
Ormerod, H. A , M.A. Ox. Lectr.
Slater, D. A., M.A. Ox. (Latin) Prof.
Smiley, M. T , M.A. Dub. Lectr.
Chapman, Dorothy, M.A. St And. Lectr.
Browne, Theresa M., M.A. Manc. Lectr.

Commerce
Dewsnup, E. R., M.A. Chaddock Prof.
Montgomery, J., M.A. Assoc. Prof.
Dumbell, S , B.A. Junr. Lectr.
Taggart, P. Spl. Lectr.

Dentistry v. *infra*

Economic Science, v. also Com.
Gonner, E. C. K., C.B.E., M.A. Ox., Litt.D. Manc. Brunner Prof.
Macdonald, R. A., M.A. Lectr.
Parry, Eliz. A., M.A. Tutor.

Education
Campagnac, E. T., M.A. Ox. Prof.
Heath, A. E., M.A. Senr. Lectr.
Collie, Frances A., M.A. Wales Lectr.

Turnbull, G. H., M.A., Ph.D. Lectr.
Kermode, Helen S., M.A. Hon. Demr
Assts. in Method.
Beszant, C F.
Tuckett, J. W., B.A. N.U.I.
Williams, Catherine A.
Milne, Susan.

Engineering v. *infra*

English Lang. and Philol.
..... Baines Prof.

English Lit.
Elton, O., M.A. Ox., D.Lit. Durh., LL.D. King Alfred Prof
Case, R. H., B.A. Lond. Bradley Prof.
Abercrombie, L. (Poetry) Lectr.
Trenery, Grace R., M.A. Junr. Lectr.

Entomology [Dutton Prof.
Newstead, R., M.Sc., F.E.S., A.L.S., F.R.S.
Carter, H. F., F.E.S. Lectr.
Evans, Anwyl M., M Sc. Asst. Lectr

Fisheries v. Ocean

French
Eggli, J. E., Ag. des L. J. Barrow Prof.
Renault, G. E, B ès A. Dijon Senr. Lectr.
2 Junr. Lectrs.
Valot, Mlle. J., L. ès L. Tutor.
Miraillet, Mlle. S., L. ès L Tutor
Nigot, G., L. ès L. Tutor.

Geography [Rankin Prof.
Roxby, P. M., B.A. Ox.
Kinvig, R. H., M.A. Junr. Lectr.
Winchester, Lily, M.A. Junr. Lectr.
Ellerton, M. K., Cartographer.

Geology [Herdman Prof.
Boswell, P. G. H., O.B.E., D.Sc. Lond., M.I.M.M., F.G.S.
Double, I. S. (Palæont.) Junr. Lectr. & Demr.
Neaverson, E., B.Sc. Junr. Lectr. & Demr.

German
Collinson, W. E., M.A. Lond., Ph.D. Prof.
Purdie, Edna, M.A. Junr. Lectr.

Hebrew v. Affild. Instns.

Hellenistic Gk. v. Affild. Instns.

History [Senr. Lectr.
Jones, W. Garmon, M.A.

Hist., Ancient [Rathbone Prof.
Halliday, W. R., B.A, B.Litt. Ox.

History Eccl. v. Affild. Instns.

History, Mediæval
Coopland, G. W., B.Sc. Lond., M.A., Litt.D. Senr. Lectr.
Howden, Marjorie, M.A. Junr. Lectr.

History, Modern
Webster, C. K., M.A. Camb.
A. Geddes & J. Rankin Prof.
..... Lectr
Lackland, Hilda M., M.A. Junr. Lectr.

Italian [Senr Lectr.
Rébora, P., D.Litt. Turin

Law, v. also Civic [Q. Vict. Prof.
Blease, W. Lyon, LL M., Barr.-at-Law, Dean of the Faculty
Batt, F. R., LL.M. (Comml. L.) Prof.
Findlay, J., M.A. Ox. Warr Mem. Lectr.
Jones, J. W., B.A., LL.B. (Criminal L., etc.) Lectr.
Thomas, H. H. Judge A. P., B.A., LL.D. Lond. (Internat. L.) Prof.

Mathematics
Carey, F. S., M.A. Camb. Prof.
Proudman, J., M.A. Camb., D.Sc. (Applied M.) Prof.

Hargreaves, R., M.A. Camb. Reader.
Street, R. O., M.A. Camb., M.Sc. (M. Hydrography) Lectr.
Wilson, B. M., B.A. Camb. Lectr.
Ince, E. L., M A. Edin., B.A. Camb. and Dub. Lectr.
Boole-Stott, Alicia, D.Sc. (H.).

Medicine v. *infra*

Music [Lectr.
Pollitt, A. W., Mus.D., F.R.C.O.

Naval Archit. v. Engin.

Oceanography
Johnstone, J., D.Sc. Lond. Prof.
Daniel, R. J., B.Sc. Lectr.
Jenkins, J. T., D.Sc. Lond. and Wales, Ph.D. Kiel. (Sea Fisheries) (H.).
Scott, A., A.L.S. (Econ. Ichthyol.) (H.).
Chadwick, H. C., A.L.S. (Marine Biol.) (H.).

Palæography and Diplomatics
Twemlow, J. A., B A. Ox. Senr. Lectr.

Parasitology
Yorke, W., M.D. W. Myers Prof.
Blacklock, B., M D., D.P.H. Lectr.
Southwell, T., A.R.C.Sc., F.Z.S. Asst. Lectr.

Philosophy
Mair, Alex., M.A. Edin. Prof.
Field, G. C., M.A., B.Sc. Senr. Lectr.

Physics, v. also Chem.
Wilberforce, L. R., M.A. Camb. L. Jones Prof.
Rice, J., M.A. Belf. Sr. Lectr.
4 Demrs. and Junr. Lectrs.

Physiology
Macdonald, J. S., M.A. Camb., F.R.S. Holt Prof.
Duffield, F. A., M.B., Ch.B., B.Sc. Lectr.
Walker, C. E., D.Sc. (Histology) Lectr.
2 Junr. Lectrs. and Demrs.

Russian Studies
Boswell, A. B., M.A. Bowes Prof. of R. Hist. Lang. and Lit.
..... Asst.
Williams, H. W., Ph.D. Mun. (R. Ethnog.) Research Fellow.

Social Studies
Davies, Mary H. Ll., M.A. Lectr.
Rathbone, Eleanor F., M.A. (Local Admn.) Lectr.

Spanish
..... Gilmour Prof.
Peers, E. A., M.A. Lectr. in charge.

Vet. Science [Prof. of V. Anat.
Share-Jones, J., D.V.Sc., M.Sc., F.R.C.V.S. Dir. of Vet. Studies
Jackson, S., M.R.C.V.S. Lectr.
Elam, C. W., D.V.H , M.R.C.V.S. Lectr.
Jones, T. Eaton, F.R.C.V.S. Lectr.
Hughes, H. V., M.R.C.V.S., D.V.H. Junr. Lectr.
McLean, J., M.R.C.V.S. Curator and Junr. Lectr.

Welsh
Davies, J. Glyn, M.A. Senr. Lectr.

Zoology, v. also Entom., Ocean.
Dakin, W. J., D.Sc., F.L.S. Derby Prof.
Bisbee, Ruth C., M. Sc. Lectr. & Demr.
Burfield, S. T., B.A., M.Sc. ,,
Baldwin, Margaret, M.Sc. Junr. Lectr. & Demr.

Engineering

Watkinson, W. H., M.Eng., M.I.C.E., M.I.M.E., M.I.E.E. Harrison Prof.

Mason, W., D.Sc.Manc., A.M.I.C.E., A.M.I.M.E. (Strength of Materials) Hughes Prof.
Scholes, G. E., M.B.E., M.Sc., A.M.I.A.E. (Thermodynamics) Rankin Prof.
Coston, E. P., B.Sc. Manc., B.Eng. Lectr.
Mawson, H., B.Sc. (Eng.) Lond., A.R.C.S., A.M.I.C.E., A.M.I.M.E. Lectr.
Okill, J., M.I.A.E. Lectr.
Kearton, W. J., A.M.I.N.A. Lectr.
Cole, E. B., B.Sc. Bris. Lectr.
Rimmer, A., B Eng. Lectr.
Smith, G., B.Sc. Jr. Lectr.
Dixon, B. J., A.R.C.Sc.I. ,, ,,

Civil Engineering
Perrott, S. W., M.A.I. Dub., M.I.C.E. Prof.
Rimmer, E. J., M.Eng., Barr.-at-Law (Contracts, etc.) Spl. Lectr.
Whittaker, H. A., B.Eng. Lectr.

Design, etc., v. also Refrigeration
Clark, J. J., B.Eng., A.M.I.M.E. Lectr. & Demr.
Hitchens, A. P., B.Eng., A.M.I.C.E. Lectr. & Demr.
Webster, F., M.C., M. Eng., A.M.I.C.E. Lectr. & Demr.

Dock and Harbour Engineering
Wilton, T. R., M.A. Camb., A.M.I.C.E. Assoc. Prof.

Electrical Engineering
Marchant, E. W., D.Sc. Lond., M.I.E.E. Jardine Prof.
Teago, F. J., M.Sc. Durh., A.M.I.E.E. (Elect. Machinery) Lectr.
Morris, C. I. Lectr.
Prescott, J. C., M. Eng. Lectr.
Waygood, O. C., A.M.I.C.E. Lectr.
Brookes, R. C., B.A. Camb.
Morgan, E. H. Demr.

Marine Engineering
Lectrs. : The Harrison Prof. of E., the Prof. of Nav. Arch., the Prof. of Refrig., etc.

Metallurgy
Bannister, C. O , A.R.S.M., F I.C. Wortley Prof.

Municipal Engineering
Brodie, J. A., M.Eng., P.I.C.E., M.I.M.E. Assoc. Prof.

Municipal Electrical Engineering
..... Assoc. Prof.

Naval Architecture
Abell, T. B., O.B E., M. Eng., R.C.N.C. (ret.), M.I.N.A. A. Elder Prof.
Wilson, J. C. M., R.N.C., A.M.I.N.A. Lectr. & Demr.

Railway Engineering
Aspinall, Sir J. A. F., M.Eng., M.I.C.E., M.I.M.E. Assoc. Prof.

Refrigeration
Anderson, J. W., M Eng., M.I C.E., M.I.M.E. (also Lectr. on Design) Hughes Prof.

Medicine

Bacteriology
Beattie, J. M., M.A. N.Z., M.D., C.M. Edin. Prof.
Ashcroft, L. S., M.B., Ch.B., D.P.H. Lectr.
Lewis, F. C., L.R.C.P. (Bact. Methods) Lectr.

Cytology
Walker, C. E., D.Sc. Lectr.

Dermatology [Lectr.
Leslie-Roberts, H., M.D. Edin.

Diseases of Children
..... Lectr.

Diseases, Infectious [Lectr.
Rundle, C., M.D. Lond., D.P.H.

Diseases, Mental [Lectr.
Cowen, T. P., M.D., B.S. Lond.

Diseases, Specific
Wilson, F. P., M.D., M.Sc. Lectr.

Forensic Medicine [Prof.
Buchanan, R. J. M., M.D., F.R.C.P.
MacFall, J. E. W., M.D., D.P.H. (Toxicol.) Lectr.

Gynæcology, Clin. [Lectr.
Bell W. Blair, M.D., B.S. Lond.

Hygiene
Hope, E. W., O.B.E., M.D., D.Sc. Edin. Prof.
Mussen, A. A., B.A., M.D. Dub., D.P.H. (Practical San.) Lectr.
Hanna, W., M.A., M.D., D.P.H. (Admn. and Vaccn.) Lectr.

Laryngology
Permewan, W., M.D. Lond., F.R.C.S., D.P.H. Lectr.

Mat. Med. and Pharm.
Marsden, P. H., F.C.S. Lectr.

Medicine [Prof.
Glynn, T. R., M.D. Lond., F.R.C.P.

Clinical Lectrs.:
Bigland, A. D., B.A., M.D.
Hay, J., M.D., F.R.C.P.
Bligh, J. Murray, M.D.
Gullan, A. G., M.D. Lond., F.R.C.S.
Macalister, C. J., M.D. Edin., F.R.C.P.
Owen, J., M.D., D.P.H.
Roberts, J. LL., M.D., B.S., B.A., B.Sc. Lond., F.R.C.S.

Midwifery and Gynæc.
Briggs, H., M.B., C.M. Edin., F.R.C.S. Prof.
Bell, W. B., M.D. Clin. Lectr.
Hendry, R. A., M.D., Ch.B. (Obst. and Gyn.) Lectr.

Neuro-Pathology
..... Lectr.

Ophthalmology
Bickerton, T. H., M.R.C.S., L.R.C.P. Lectr.

Pathology
Glynn, E. E., M.A., M.D., C.M. Camb., F.R.C.P. Holt Prof.
..... Lectr.
Bamforth, J., M.D., D.P.H. Junr. Lectr.

Pharmacology, v. also Mat. Med.
Dilling, W. J, M B. Lectr.

Radiology
Holland, C Thurston, M.R.C.S., L.R.C.P. Lectr.

Surgery
Parker, R., M.B., B.S. Lond., F.R.C.S. Prof.
Thomas, W. T., M.B.E., Ch.M., F.R.C.S. (Regional S.) Prof.
Jones, Sir Robert, C.B., K.B.E., Ch.M., D.Sc., F.R.C.S. (Orthopædics) Lady Jones Lectr.
Kelly, R. E., C.B., M.D., B.Sc., F.R.C.S. (Practical S.) Lectr.
Monsarrat, K. W., M.B., C.M., (Operative S.) Lectr.
Kennon, R., M.D., F.R.C.S. Demr.

Clinical Lectrs.:
Bickersteth, R. A., M.A., M.B., B.C. Camb., F.R.C.S.
Evans, A. J., F.R.C.S. Edin.
Jones, T. C. Litler, F.R.C.S.
Newbolt, G. P., M.B. Durh., F.R.C.S.
Simpson, G. C. E., B.A., M.B., B.C. Camb., B.Sc., F.R.C.S.

Therapeutics
Abram, J. Hill, M.D. Lond., F.R.C.P. Prof.

Tropical Med.
Stephens, J. W. W., B.A., M.D., D.P.H. Camb.
Sir A. Jones Prof.
Thomas, H. W., M.D., C.M., Director of Research at Manaos (Yellow Fever).
3 Research Assts.

Tropical Sanitation
Prout, W. T., C.M.G., M.B., C.M. Edin. (H.).

Vaccination v. Hygiene

Dentistry

Dental Surgery
Gilmour, W. H., M.D.S., L.D.S. (Dir. of D. Educn.)
Cohen Prof.

Anæsthetics [Lectr.
Bailey, F. W., M.R.C.S., L.R.C.P.

D. Anat., Histol., and Physiol.
Woods, J. A., M.D.S., L.D.S. Lectr.
Livingston, A., M.D.S. Demr.

D. Mechanics
Osborn, L. J., D.S.O., M.D.S., L.D.S. Lectr.

D. Metallurgy
Thomas, J. S. (v. Chem) Lectr.
Froysell, H. H., A.I C. Demr.

Operative D. Surgery
Bennette, H. W. P., M.D.S., L.D.S. Lectr.
Wilkinson, F. C., M.D., B.D.S. Demr.

Clin. D. Surgery
7 Lectrs.

Orthodontia
Mountford, E. H., L.D.S. Lectr.

ASSOCIATED AND AFFILIATED INSTITUTIONS

INSTITUTE OF ARCHÆOLOGY, Abercromby Square, L'pool. Associated Teachers additional to the staff of the Faculty—*Assyriology*, Pinches, T. G., LL.D.; *Numismatics*, Milne, J. G., M.A.; *Central American Arch.*, Gann, T. W. F., M.R.C.S., L.R.C.P.

ST. AIDAN'S COLLEGE, Birkenhead. Principal, Rev. R. T. Howard, M.A. Affild. for first year of degree course and, in subjects in which instruction is not provided in the Univ., up to half of the entire course for the B.A.

Recognized Teachers in—*Hellenistic Greek*, ... ;
Eccl. Hist., Wood, J. J., M.A.; *Hebrew*, Keith, K. E., M.A.

EDGE HILL TRAINING COLLEGE. Principal, Miss E. M. Smith.

MOUNT PLEASANT TRAINING COLLEGE. Recognized Teachers in—*Latin*, Sampson, Miss M., M.A.; *English Lit.*, Healey, Miss J., B.A.

THE HARRIS INSTITUTE, Preston. First year of Degree Course (Engineering).

SCHOOL OF TROPICAL MEDICINE. Office at H 24-25 Exchange Bldgs., Liverpool. For training in the conduct of original research and organisation of prophylactic measures. Has sent out 32 expeditions to tropical countries. Publishes Memoirs and *Annals*. For staff, v. *supra*—Trop. Med., Trop. San., Parasit., Entom., Hygiene. Diploma course, 3 months.

GENERAL INFORMATION

University College, Liverpool, founded by Royal Charter 1881, was admitted into the Victoria University, Manchester, in 1884. In 1903 the University of Liverpool was established by Royal Charter and the College was absorbed in it.

LIBRARY, MUSEUMS, ETC. The library of the Univ. contains about 90,000 vols., and includes the Rylands collection of early works on Geog. and Astron., over 100 incunabula, and the final sheets of the "Constitutiones" of Clement V., printed at Mainz in 1460. MUSEUMS AND LABORATORIES: Anat., Archæol. (including a unique Hittite collection), Archit., Bact., Bio-Chem., Bot., Chem., Physical and Electro-Chem., Electricity (Applied), Embryol. and Genetics, Engin. (including facilities for aerial motor and propeller testing and other wind experiments), Geol., Hygiene, Laryngology, Materia Medica, Expl. Med., Trop. Med. (including museum, animal houses, and specially warmed glass insectarium, and research labs. at Liverpool and at Manaos), Obst. and Gynæc., Oceanog., Ophth., Path., Physics, Physiol. and Histol., Surg. Path., Tidal Research, Toxicology, Vet. Anat. and Path., Zool. The Univ. has the use of the workrooms of the Port Erin (Isle of Man) Marine Biol. Lab. HOSPLS. available for Clinics, 4 general and 5 special, containing 1140 beds, which together constitute the clinical school. The trade of the port ensures frequent importations of infection. Special wards for Trop. Diseases. Expeditions to Tropical countries organized for investigation or advice.

DEGREE COURSES. 3 yrs., B.A., B.Com., B.Sc, LL.B., 4 yrs., B.Eng. (3 yrs. *plus* 2 or 3 yrs. appr'ship); 5 yrs., B Arch., M.B., Ch.B, B.D.S., B.V.Sc.

The B.Com. courses include (1) General Business, (2) Banking, Insurance, Accountancy; (3) Transport, Railways, Shipping; (4) Consular Service.

The LL.B. courses prepare for the Bar and solicitors' examns. as well as for the Degree. The B.V.Sc. may be taken concurrently with the M.R.C.V.S.

HIGHER DEGREES. Obtainable 1 yr. after the bachelorship: M.Sc., M.D., (med. grads. of other Univs. after 2 yrs. in Univ. or Clin. School; Liv. med. grads. after 5 yrs. practice may take M.D. by examn. without dissertation); Ch.M., M.D.S., M.V.Sc, LL.M.; 2 yrs., M A., M.H. (Hygiene), Ph.D. (v. p. 10); 3 yrs., M.Eng.; 4 yrs., D.V.Sc.; 4 yrs. (after M.A.), Litt.D.; 6 yrs., Litt.D., LL.D., D.Sc, D Eng. The M A. and M.Sc. are open to non-graduates. engaged for 3 yrs. in higher study or research in this Univ. The M.A., M.Sc., LL.M. are open to grads. of approved Univs. and to those of other Faculties in Liv. who engage in higher study or research for 2 yrs., of which at least 1 yr. must be in Liv. The 2 yrs. course for the M.H. is open to grads. of other Univs.

DIPLOMAS. Archæol., 1 yr. course; Archit., 5 yrs.; Civic Design, 1 yr.; Commerce, 3 yrs.; Social Studies, 1 or 2 yrs.; Educn. (for grads.), 1 yr.; L.D.S., 4 yrs.; D.P.H., 9 mos.; D.T.M., 3 mos.; D.M.R.E., 4 terms; D.V.H., 6 mos.; Engin., 2 yrs. in practice after Final B.Eng. or 2nd examn. for certif. in Engin.

CERTIFICATES. Archaeol., 2 yrs. course: separate Arts subjects, 2 yrs.; Archit., 3 yrs.; Archit. Design, 1 yr.; Civic Design, 2 terms; Social Studies, 1 or 2 yrs. (qualification for entry lower than for Diploma course); Engin. 2 yrs. (2 day sessions or equivalent combination or day or evening work, or both).

FEES. For Matricn. £2. Guild of Undergrads. £2 p.a. Tuition, average for Degree courses: in Arts (3 sessions), £76; Archit. (5 sessions), £173; Science (3 sessions), £83; Med. (5 sessions), £187: 10s.; Hygiene (2 sessions), £65; Dentistry (5 sessions), including pupilage, £237; B.V.Sc. (5 sessions), £167; Law (3 sessions), £67; Engin. (3 sessions), £144; Ph.D. (2 sessions), £27; M.D.S. (1 session), £18. Diploma courses: 5 sessions, Archit., £173;

Conjt. Bds. of P. and S., £180; 4 sessions, L.D.S., including pupilage, £199; 3 sessions, Com., £76; 2 sessions, Social Studies, £24; 1 session, D.P.H., £39; Civ. Design, £27; D.V.H., £21; D.T.M., £18; Ed., £15; Archæol., £4. Certif. courses: 3 sessions, Archit., £120; 2 sessions, Engin., £96; Social Studies, £24; separate Arts subject, £14; Archæol., £13; 1 session, Archit. Design, £40; Civ. Des., £8.

EXAMN. FEES. B.A., B.Com., B.Sc., LL.B., B.Eng., £2; B.Arch., Ch.M., Doctorate (dissertation), £5; M.H., 10 gs.; M.B. and Ch.B., B V.Sc., B.D.S, £15; Diploma examns., Med. or Dent., 5 gs.; Others, £1 to £5. Degree Fees, £5, except M.V.Sc., £1, and M.B., Ch.B., B.V.Sc., B.D.S., *nil*. Dipl. or Certif. fee, £1.

SCHOLARSHIPS, ETC. FOR GRADUATES. Research Fellowships and Scholarships of the aggregate value of over £6000 are offered annually in all faculties; Garrett International Fellowship for Research in Bact., Path., or Physiol. open to members of Univs. and Med. schools in the U.S.A. and of other foreign schools, £100 for 1 yr. with possible extension 2 yrs. (applications by May 31); Johnston Colonial Fellowship of same value, for research in Bio-Chem. with teaching, open to members of Colonial Univs. and Med. Schools, not excluding Colonial candidates with British qualifications (applications by May 31); Lloyds' Register Scholps. in Naval Archit., £100 p.a. for 3 yrs. for British subjects, men, not over 23.

RESIDENCE, ETC. Three hostels for about 70 men (fees, £82); one for about 90 women (fees from £58). Students' Union Club House cost £20,000.

A UNIVERSITY EXTENSION Board is responsible for extra-mural work. There are travelling libraries for local centres.

PUBLICATIONS. *Calendar* (Oct.), 1s.; *Students' Handbook* (Oct.), free; *Annals of Trop. Med. and Parasitology*, quarterly—annual subs., 22s. 6d.; *Annals of Archæol. and Anthrop.*, quarterly—annual subs., £1 : 1s.; *Town Planning Review*, quarterly, 4s. 6d.; *Public Inaugural Lectures*; *Report of the Senate upon Research*. Issued in 1920, *inter alia*, *School of Tropical Medicine Historical Record*, 1898–1920, 10s. 6d.

THE YEAR 1919–20

BENEFACTIONS. In response to an appeal for £1,000,000, T. Harrison Hughes, £25,000 for Athletics; £25,000 for 2 Chairs of Engineering; C. Sydney Jones, £30,000 for Educn. Dept. buildings and equipment; £12,000 for Fellowships; J. Rankin, £11,000 for Chair of Thermodynamics; £5000 towards Chair of Geog.; L. S. Cohen, £15,000 for Chair of Dental Surgery; A. Holt and Co., £10,000 for Chair of Metallurgy and £5000 towards equipment; £10,000 each for Chairs of Vet. Anat. and Cytology; £5275 for Elec. Engin. Others: Mrs. Ellen Morgan and Mrs. Agnes Sinclair bequests, £1000 each for Scholps.; £909 for Oceanography.

NEW BUILDINGS, ETC. Three large houses acquired for Dept. of Educn., donor defraying cost of equipment. School of Trop. Med. moved into its new building, previously used as mily. hospl. Two additional hostels for men. As temporary measure, 4 army huts erected in quadrangle and many depts. accommodated in dwelling houses.

NEW DEPARTMENTS. Pharmacology, Cytology, Med. Radiology and Electrology.

NEW POSTS. Chairs of Commerce, Dent. Surg., Vet. Anat., Engin. (3), Met.; Assoc. Prof'ships. in Human Anat., Cytology. Readership in Egyptian Art. Lect'ships in Educn., Rendering, Perspective, and Skiagraphy, Anæsthetics (Dental), Law, and many Junior Lect'ships.

CHANGES IN CURRICULA. Honours Schools of Italian and Oceanography. Diploma in Med. Radiology, and Diploma and Certif. in Archæology established. Honours school of History instead of Mediæval and Modern separately. B.Arch course extended to 5 yrs. Litt.D. requirements altered to ensure that main body of work submitted shall have been published. For Interm. B.Sc., Zoology *or* Botany may be taken instead of both. M.D. degree opened to Med. grads. of other Univs. LL.B. course modified to provide facilities for more instruction in historical and social aspects of law without diminishing instruction of purely technical kind. B.Eng. course increased to 4 yrs. from matricn.

OTHER DEVELOPMENTS. Advisory Board in Oceanography; Board of Studies in Education. Several new Fellowships (including one in Celtic), Scholps., and prizes.

SPECIAL EVENTS Visit of President of Board of Education, who opened studio in School of Archit.; Lecture by Prof. Antoine Depage of Belgian Red Cross; opening of School of Trop. Med. building by Lord Leverhulme.

SUMMER SCHOOL in Spanish, Aug. 3 to Sep. 15, attended by 80 students. 3 Spanish teachers from Madrid. Soc. of Spanish studies formed.

EXTENSION LECTURES and classes in 3 centres and special course in conjunction with Elec. Trades Union. 28 three-year Tutorial Classes distributed over wide area.

NUMBER OF STUDENTS. Full-time, bachelorship, 1491, including 387 women; research, etc., 81 (23 women); diploma students, 618 (43 women). Part-time, 415 (107 women). Total 2605. In 1917–18 and 1918–19, 778 and 1522.

HONORARY DEGREES GRANTED. Litt.D.—Sir R. Blomfield, Prof. F. M. Powicke; D.Sc.—Prof. F. G. Donnan, Emeritus Prof. W. A. Herdman; LL.D.—J. W. Alsop, Sir A. A. Booth, Lord Robert Cecil, Sir Alfred Dale, J. Rankin, Sir Michael Sadler; M.A.—H. Martin, Miss S. J. Hale, T. J. Walshe; M.Eng.—J. H. Gibson

OTHER DEGREES. B.A.—53; B.Arch.—1; B.Com.Sc.—2; B.Sc.—63; M.B.—20; B.D.S.—2; LL.B.—3; B.Eng.—37; M.A.—11; M.Sc.—8; M.D.S.—1; M.Eng.—7; D.Sc.—1; M.D.—12. *Diplomas*: D.P.H.—14; D.T.M.—17; L.D.S.—19; D.V.H.—5; others—14.

DEATHS AND RETIREMENTS. Profs.—J. P. Postgate, r.; H. C. K. Wyld, r., on appointment to Chair in Oxford; R. C. Bosanquet, r.; P. E. Newberry, r.; L. A. Terracher, r., on apptmt. to Chair in Strasbourg; L. Doncaster, d.; R. Robinson, r., to join industrial firm (dyeing); W. A. Herdman, r.; W. H. Young, r., on apptmt. to Chair at Aberystwyth. Lectrs.—G. S. Veitch, r., on apptmt. as Secy. Univ. Extension Board; H. Sumner, r.

UNIVERSITY OF LONDON

VISITOR—H.M. THE KING IN COUNCIL.

CHANCELLOR—Rt. Hon. EARL OF ROSEBERY AND MIDLOTHIAN, K.G., K.T., D.C.L., etc.

VICE-CHANCELLOR—S. RUSSELL WELLS, M.D., B.Sc.

CHAIRMAN OF CONVOCATION—Sir EDWARD H. BUSK, M A., LL B.

PRINCIPAL OFFICER—Sir E. COOPER PERRY, M.A., M.D., F.R.C.P.

ACADEMIC REGISTRAR—EDWIN DELLER, LL D.

REGISTRAR OF THE COUNCIL FOR EXTERNAL STUDENTS—G. F. GOODCHILD, M.A., B.Sc.

REGISTRAR OF THE UNIVERSITY EXTENSION BOARD—J. LEA, M.A.

SECRETARY TO THE SENATE—P. M WALLACE, M A.

SECRETARY TO THE FINANCE COMMITTEE—W. K. HILL, B.A.

SUPERINTENDENT OF EXAMINATIONS—R. ROSCOE, B.A.

GOLDSMITHS' LIBRARIAN—R. A. RYE.

REPRESENTATIVE IN PARLIAMENT—Sir PHILIP MAGNUS, B.A., B.Sc.

INCORPORATED COLLEGES, SCHOOLS OF THE UNIVERSITY, AND INSTITUTIONS HAVING RECOGNIZED TEACHERS

Opposite each is shown the index letter or letters or number by which the institution is referred to in the subsequent part of this section.

INCORPORATED COLLEGES

UNIVERSITY COLL.	(U.).	KING'S COLL. FOR WOMEN	(KW.).
KING'S COLL.	(K.).	DITTO, HOUSEHOLD AND SOCIAL SCIENCE DEPT.	(KH.).

INCORPORATED INSTITUTIONS AND UNIVERSITY DEPARTMENTS

GOLDSMITHS' COLLEGE.

BROWN ANIMAL SANATORY INSTITUTION.

PHYSIOLOGICAL LABORATORY.

FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS.

BARTLETT SCHOOL OF ARCHITECTURE

COMMERCE DEGREE BUREAU.

SCHOOLS OF THE UNIVERSITY

IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY (Im.).
EAST LONDON COLL. (EL.).
BIRKBECK COLL. (3).
LONDON SCHOOL OF ECONOMICS (E.).
S.E. AGRIC. COLL., WYE (Ag.).
LONDON DAY TRAINING COLL. (Tr.).
SCHOOL OF ORIENTAL STUDIES (O.).

Women's Colleges

BEDFORD COLL. FOR WOMEN (BW.).
ROYAL HOLLOWAY COLL. (Ho.).
WESTFIELD COLL. (Wf.).

Theological

NEW COLL., HAMPSTEAD (N.).
HACKNEY COLL., HAMPSTEAD (H.).
REGENT'S PARK COLL. (R.).
KING'S COLL. THEOL. DEPT. (KT.).
WESLEYAN COLL., RICHMOND (WR.).
ST. JOHN'S HALL, HIGHBURY (J.).

Medical

ST. BARTHOLOMEW'S HOSPITAL MEDICAL SCHOOL (B.).
ST THOMAS'S HOSPL. MED. SCH. (T.).
WESTMINSTER HOSPL. MED. SCH. (W.).
GUY'S HOSPL. MED. SCH. (G.).
ST. GEORGE'S HOSPL. MED. SCH. (SG.).
LONDON HOSPL. MED. COLL. (L.).
MIDDLESEX HOSPL. MED. SCH. (M.).
CHARING CROSS HOSPL. MED. SCH. (C.)
LONDON (R.F.H.) SCH. OF MED. FOR WOMEN (LW.).
UNIV. COLL. HOSPL. MED. SCH. (UM.).
KING'S COLL. HOSPL. MED. SCH. (KM.).
ST. MARY'S HOSPL. MED. SCH. (SM.).
LONDON SCH. OF TROP. MED. (TM.).
LISTER INST. OF PREVENTIVE MEDICINE (LI.).
ROYAL ARMY MED. COLL. (AM.).
ROY. DENT. HOSPL. AND LOND. SCH. OF DENT. SURG. (D.).
NAVAL MED. SCH., GREENWICH (NM.).
NATIONAL DENT. HOSPL. AND COLL. (ND.).

INSTITUTIONS HAVING RECOGNIZED TEACHERS

(1) GOLDSMITHS' COLL.*
(2) BATTERSEA POLYTECHNIC.
(3) BIRKBECK COLL.†
(4) CITY OF LONDON COLL.
(5) FINSBURY TECHNICAL COLL.
(6) JEWS' COLL.
(7) NORTHAMPTON POLYT. INST.
(8) NORTHERN POLYT. INST.
(9) ROYAL VETERINARY COLL.
(10) SIR JOHN CASS TECH. INST.
(11) SOUTH-WESTERN POLYT. INST.
(12) WEST HAM MUNICIPAL TECH. INST.
(13) WOOLWICH POLYTECHNIC.
(14) MARIA GREY TRAINING COLL.
(15) ST. MARY'S COLL., PADDINGTON.
(16) BOROUGH ROAD COLL., ISLEWORTH.
(17) ST. JOHN'S COLL., BATTERSEA.
(18) ST. MARK'S COLL., CHELSEA.
(19) ROYAL ACADEMY OF MUSIC.
(20) ROYAL COLL. OF MUSIC.
(21) TRINITY COLL. OF MUSIC.
(22) GUILDHALL SCH. OF MUSIC.
(22*a*) PHYSIOL. LAB. OF THE UNIV.*
(23) BETHLEM ROYAL HOSPL.
(24) HOSPL. FOR CONSUMPTION.
(25) HOSPL. FOR SICK CHILDREN.
(26) NAT. HOSPL. FOR PARALYSED AND EPILEPTIC.
(27) ROYAL LOND. OPHTHALMIC HOSPL.
(28) SCH. OF PHARMACY.

* Incorporated in the Univ.

† Now a School of the Univ.

PROFESSORS, READERS, LECTURERS, ETC.

(The Teaching of the Univ. is organized under 3 categories: (1) conducted by the Univ. itself; (2) conducted by the several "Schools of the Univ."; (3) conducted at the other Institns. at which there are "Recognized Teachers of the Univ." In the following list the Institns. (*see* list *above*) in which the teaching is given are indicated by means of the index symbols placed after the designations of the teachers. The teachers in any School of the Univ. do not thereby become Teachers of the Univ. unless they have been individually recognized as such. Teachers not so recognized and those to whom only probationary recognition has been granted are not included in the following list.)

Accountancy and Business Methods, v. also Com.
Dicksee, L. R., M Com Birm
Cassel Prof. (E.)

Administration v Public

African Langs.
Werner, Alice (O.).

Agriculture, v. also Botany
Haines, A H. (Estate Management and Surv.) (Ag).

Anatomy
Barclay-Smith, E., M.A., M.D., B.Ch. Camb. Prof. (K.).
Frazer, J. E. S., F.R.C.S.
Prof. (SM.).
Gladstone, R. J., M.D., C.M., D.P.H. Aberd., F.R.C.S., (Embryol.) (K.).
Greene, W. H. C., C.B.E., B.A., M.B., B.Ch. Camb., F R.C.S. (SM.).
Johnston, T. B., M.B., Ch.B. Edin.
Prof. (G).
Keene, Mrs. M. F. L., M.B., B.S. F.R C.S. Reader (LW.).
Parsons, F. G., F.R.C.S. Prof. (T.).
Smith, G. E., M.D., C M. Syd, M.A Camb., F.R.S., F.R.C.P.
Prof. (U.).
Wright, W., D.Sc. Bir., M.B., Ch.B. Manc., F.R.C.S.
Prof. (L.).
Yeates, T., M.B., C.M. Edin., B.Hy., D.P.H. Durh. Prof. (M.).

Anatomy, Morbid [Prof. (T.).
Shattock, S. G., F.R.C.S., F.R.S. (also recogd. in Bact. and Path.)
Spilsbury, B H, M A., B M. Ox. (recogd. in Path) (B).
Turnbull, H. M., M.A., B Ch., D.M. Ox. (recogd. in Path.)
Prof. (L.).

Arabic v. Oriental Langs.

Aramaic v. Semitic Langs.

Archæology, v. also Class, Hist.
Gardner, E. A., M.A., Litt.D. Camb. Yates Prof. (U.).

Assyrian and Babylonian Archæology
Murray, Margaret A. (U.).
Petrie, W. M. Flinders, D.C.L. Ox, LL.D. Aberd., Litt D., Ph.D., F.B.A., F.R.S.
Edwards Prof. (U.).

Architecture
Adshead, S. D., M.A. Liv., F.R.I.B.A.
Prof. of Town Planning (U.).
Richardson, A. E., F.R.I.B.A.
Prof. (U.).
Stratton, A. J., F.R.I B.A., F.S.A.
Reader (U.).

Art (Fine Art)
Borenius, C. T., Ph.D. Hels. (Hist. of Art) (U.).
Marriott, F., A.R.C.A., A.R.E. (1).
Porter, A.T., M.A. Camb. (U.).

Russell, W. W., A.R.A. Asst. Prof. (U.).
Thomas, J. Havard, M.A. Bris. (Sculpture) Prof. (U.).
Tonks, H., F.R.C.S. Slade Prof. (U.).

Astronomy v. Physics

Aviation v. Engineering

Banking and Currency
..... Cassel Prof (E).

Biochemistry, v. also Chem.
Harden, A., D.Sc. Manc., Ph.D Erl., F.R.S. Prof. (LI.)
Ryffel, J. H, M A, B Ch Camb., B.Sc., F.I C (recogd in Forensic Med) Reader (G)

Biology, v. also Zool.
Dobell, C., M.A. Camb., F.R S. (B., Protistol., & Cytol.) (Im.).
Esdaile, Philippa C, D Sc Manc. Reader (KH.)
Evans, T. J., M.A. Ox. (G.).
Leigh-Sharpe, W. H., B.Sc. (SM.).
Mudge, G. P., A.R.C.S. (L, LW.)
Nicholls, G. E., D.Sc, A R.C.Sc. (KH.)
Shore, T. W., O.B.E, M D., B.Sc. (B.).
Unthank, H. W., B.A., B.Sc. (3)

Botany [Prof. (Ho.).
Benson, Margaret J., D.Sc.
Blackman, V. H., M.A., Sc.D. Camb., F.R.S. (Im.).
Delf, E. M., B.A. Dub., D.Sc., F.L.S. (Wf.).
Drabble, F., D.Sc. Lond. & Shef., A.R.C.S., F.L.S. (8).
Farmer, J. B., M.A., D.Sc. Ox., F.R.S. (Im.).
Fritch, F. E., D.Sc., Ph D. Mun., F.L.S. (EL.).
Gates, R. R., M.A. Mt. All., B.Sc. McG., Ph.D. Chic., F.L.S. Reader (K.).
Groom, P., M.B.E., M.A. Ox. and Camb., D.Sc. Ox., B.Sc. Birm., F.L.S. (1m.).
Gwynne-Vaughan, Dame H. C. I., D.B.E., D.Sc., F.L.S., LL.D. Glas. (3).
Haas, P., D.Sc., Ph.D. Freib. (U.).
Halket, Ann C., B.Sc. (BW.).
Hill, T. G., A.R.C.S., F.L.S. (Plant Physiology) Reader (U.).
Lacey, H. B., F.L.S. (11).
Matthews, J. R., M.A. Edin. (3).
Mockeridge, F. A., D.Sc. (K.).
Neilson-Jones, W., M.A. Camb. Prof. (BW.).
Oliver, F. W., M.A. Camb., D.Sc., F.R.S. Quain Prof. (U.).
Salisbury, E. J., D.Sc., F.L.S. (U.).
Salmon, E. S. (Mycology) Reader (Ag.).
Stopes Marie C., D.Sc., Ph.D. Münich, F.L.S. (Palæo-botany) (U.).

Chemistry, v. also Bio-Chem.
Allmand, A. J., D.Sc. Liv. Prof. (K.).
Arnall, F., B.Sc. (11).
Baker, H. B., C.B.E., M.A., D.Sc. Ox., F.R.S. (Im.).
Barnett, E. de B., B Sc. (10).
Barrow, F., M.Sc. Birm., Ph.D. Stras. (3).
Boyle, Mary, D Sc. (Ho.).
Burke, Katharine A., B.Sc. (U.).
Candy, H. C. H., B.A., B.Sc., F.I.C., F.C.S. (L.).
Clough, G W., D Sc. Birm. (9).
Coleman, J. B., A.R.C.S., F.I.C., F.C.S. (11).
Cremer, H W., B.Sc., A.I.C. (Inorg. C.) (K.).
Crompton, H., F.C.S., A.C.G.I. Reader (BW.).
Dean, G., M.A. Camb. (12).
Denham, W. S., D.Sc. St. And., B.Sc. (SM.).
Donnan, F. G., C.B.E., M.A. R U I., Ph.D. Leip., D.Sc. Liv, F I.C. Prof. of Genl. Chem. (U.).

Drakeley, T. J., M.Sc., F.C.S., A.I.C. (8).
Garner, W. E., M.Sc. Birm. and Lond. (U)
Gibson, C. S., O.B.E., M.A. Ox. and Camb., B.Sc. Ox., M.Sc. Manc., F.I.C. Prof. (G)
Harwood, H. F., M.Sc. Manc., Ph.D. Heid. (Im.).
Hurtley, W. H., D.Sc. Reader (B).
Keane, C. A., D.Sc. Manc., Ph.D. Erl., F.I.C. (10).
Kellas, A. M., D.Sc., Ph.D. Heid. (M).
Kenyon, J., D.Sc., F.I.C. (2).
King, A. T., B.Sc. (Im.).
Le Sueur, H.R., D.Sc., F.I.C. Reader (T.).
Lowe, F. H., M.Sc. Manc. (11).
Masson, J. I. O., M.Sc. Melb. Reader in Inorg. C. (U).
Masters, Helen, B.Sc. (KH.).
Melland, G., M.Sc. Manc., A.R.S.M., F.I.C. (13).
Myddleton, W.W., M.Sc. Belf. (3).
Moore, T. S., M.A. Ox., B.Sc. Prof. (Ho.).
Partington, J. R., M.B.E., D.Sc. Manc. Prof. (EL.)
Patterson, W. H., M.Sc. Manc. (EL.).
Philip, J. C., O.B.E., M.A., D.Sc. Aberd., Ph.D. Gött. (Im.).
Pickard, R. H., B.Sc. Birm., Ph.D. Munich, D.Sc. (2).
Pope, F. G., D.Sc. Reader (EL.).
Sand, H. J. S., Ph.D. Zür., D.Sc. Birm. (10)
Senter, G., D.Sc., Ph.D. Leip. (3).
Smiles, S., O.B.E., D.Sc., F.R.S. Daniell Prof. (K.).
Stratton, Mrs. K., M.Sc. (EL.).
Streatfeild, F. H. (12).
Sugden, S., B.Sc., A.R.C.S., A.I.C. (3).
Thole, F. B., D.Sc. (3).
Tinkler, C. K., B.Sc. Lond. and Wales, D.Sc. Birm. Prof. (KH.).
White, J. L., D.Sc. Durh. (2).
Whiteley, Martha A., O.B.E., D.Sc., A.R.C.S. (Im.).
Widdows, Sibyl T., B.Sc., F.I.C. (LW.).

Chemistry, Organic

Collie, J. N., LL.D. Glas., D.Sc. Liv. and Belf., Ph.D. Würz., F.I.C., F.R.S. Prof. (U.).
Crocker, J. C., M.A. Camb., D.Sc., F.C.S. (11).
Thorpe, J. F., C.B.E., D.Sc. Manc., Ph.D. Heid., F.I.C., F.C.S., F.R.S. (Im.).

Chemistry, Pathological, v. also Bio-Chem.

Goodbody, F. W., M.D., B.Ch., B.A.O., B.A. Dub. (U.)
Kennaway, E. L., M.A., D.M. Ox., D.Sc. (M.).
Wallis, R. L. M., M.A., M.D. (B).
Willcox, W. H., C.B., C.M.G., M.D., B.Sc., F.R.C.P., F.I.C., F.C.S., D.P.H. (also in Med.—For. and Clin.) (SM.).

Chem., Physical

Spencer, J. F., D.Sc. Liv., Ph.D. Bres., B.Sc. Manc. (also recogd. in Chem.). Reader (BW.).
Salmon, C. S., M.Sc. (K)

Chemistry, Physiological

Drummond, J. C., D.Sc., F.C.S., F.I.C. Reader (U.).
Gardner, J. A., M.A. Ox., F.I.C., F.C.S. Reader (22*a*, SG.) (also recogd. LW.).
Schryver, S. B., D.Sc., Ph.D. Leip. (Im.).

Chemical Technology

Bone, W. A., D.Sc. Manc., Ph.D. Heid., F.R.S. (Im.).
Finch, G. I., M.B.E., Dipl. Tech. Chem. Zür. (Im.).

Chinese v. Oriental Langs.

Classics

Alford, Margaret (Latin) (Wf.).

Almond, Eleanora M., B.A. (Wf.).
Barker, E., M.A. Ox (and in Hist.) (K.).
Butler, H. E., M.A. Ox. Prof. of Lat. (U.).
Crump, Mary, M.A. (1).
Earp, F. R., M.A. Camb. (EL.).
Kilner, G. W., M.A. (N., H., R., 3).
Knight, Clara M., D.Lit. (KW.).
MacGregor, J. M., M.A. Ox. Reader in Gk. (BW.).
Marshall, F. H., M.A. Camb. (recogd. also in *Archæol*) (3).
Parker, Constance E., M.A. (Wf).
Platt, J. A., M.A. Camb. Prof. of Gk. (U.).
Powell, Mary H., M.A. Dub. (Latin) (1).
Richardson, Anne W., B.A. (Wf.).
..... Prof. of Latin (BW.).
Sleeman, J. H., M.A. Camb. (Ho.).
Solomon, L., M.A. Ox. (U.).
Tarrant, Dorothy, M.A. (BW.).
Taylor, Margaret E. J., M.A. Dub. (Ho)
Turner, B. E: R., M.A. Ox. (K.).
Walters, W. C. F., M.A. Ox. Prof of Classical Lit. (K., KW.).
Westaway, Miss K. M, M.A. (Ho.).
Wright, F. A., M.A. Camb. (3).

Commerce, v. also Acc., Bank., Law
Sargent, A. J., M.A. Ox. Prof. (E.).
Gregory, T. E. G., B.Sc. Econ. (*Foreign Trade*) Reader.
..... (*Home Trade and Indust.*) Reader.
Dalton, E. H. J. N., M.A. Camb. (*Tariffs and Taxation*) Reader.
Jones, Ll. Rodwell, B.Sc. (*Comml. Geog.*) Lectr.
Smith, J. D., O.B.E., M.A. Aberd. (*Business Methods*) Lectr.
Joynt, T. A., M.A. Edin. (*Transport*) ,,

Danish [(U.).
Helweg, J. H., Cand. Mag. Copen.

Dental Anat. and Physiol. [(G.).
Hopson, M. F., L.D.S. (D. Anat.)
Pare, J. W., M.D., C.M. Edin., L.D.S. (ND.).
Underwood, A. B. G, M.B., L.D.S. (ND.).

Dental Mechanics
Dowsett, E B., L.R.C.P., M.R.C.S., L.D.S. (G.).
Gabell, D. P., L.R.C.P., M.R.C.S., L.D.S. (D.).
Olver, S. H, L.D S (ND).

Dental Surgery
Ackland, R. C., C B E, L R.C.P., M.R.C.S, L.D.S. (B.).
Bennett, N. G., M.A., M.B., B.Ch. Camb., L.D.S. (SG.).
Buxton, J L. D., L.D S. (ND).
Colyer, Sir J. F., O B.E, L.R C.P., F R.C S., L D S. (C).
Dolamore, W. H., L.R.C.P., M.R.C.S, L.D.S. (Operative D.S.) (SM., D.).
Glassington, C. W., M.R C.S., L.D.S. Edin. (W.).
Parfitt, J. B., L.R.C.P., M.R.C.S., L.D.S. (G.).
Payne, J L., O.B.E., L.R C.P., M R C S., L.D S. (G).
Turner, J. G., F.R.C.S., L.D.S. (D.).
Wallis, C. E., L.R.C.P., M.R.C.S., L.D.S. (KM.).

Dutch [Prof. (U., BW.).
Geyl, P., Lit.D. Leyd.
Harting, P. Reader (U., BW.).

Economics, v. also Com., Geog., Pol., Pub. Admn., Soc., Stat., Transp.
Beveridge, Sir W. H., K.C.B., M.A., B.C.L. Ox. (Descr. E. and Pub. Admn.). (E).
Cannan, E., M.A. Ox., LL.D. Prof. of Pol. Econ. (E.).
Dickinson, G. L., M.A. Camb. (E.).

Foxwell, H. S., M.A. Camb., F.B.A. Prof. of Pol. Econ. (U., E.).
Lloyd, C. M., M.A. Ox. (E. and Pub. Admn.). (E.).
Pringle, W. H., M.A. Edin., LL.B. Glas. (3).
Stocks, Mrs. M. D., B.Sc. (KH.).
Tawney, R. H., B.A. Ox. (Social E.) (E.)
Urwick, E. J., M.A. Ox. (also in Sociol. E.) (K.).

Economic Geography
Jones, L. R., B.Sc. (E.G. and Pub. Admn.) (E.)
Ormsby, Mrs. H. R., B.Sc. (Econ.) (E.).

Economic Hist., v. also Palæog., Pub. Admn
Knowles, Mrs., Litt.D. Dub. Reader (E.).

Education, v. also Music
Adams, J., LL.D. St. And., M.A., B.Sc. Glas. Prof. (Tr.).
Adamson, J. W., B.A. Prof. (K.).
Fairgrieve, J., B.A. Lond., M.A. Ox. (Tr.)
Graveson, Caroline C., B.A. (1).
Hague, J. C., M.A. Manc. (Tr.).
Hubback, Jane C., T.C. Camb. (15).
Hudson, R., M.A. Camb. (18).
Johnston, Katharine L., M.A. Sheff., T.D. Camb., B.A. (14).
Meiklejohn, Grace I. W., M.A. Edin. (14).
Melhuish, Sara, M.A. Manc. Reader (BW.).
Nicholson, Adelaide M., M.A. (14).
Nunn, T. P., M.A., D.Sc. Prof. (Tr.).
Powell, Helena L. (15).
Punnett, Margaret, B.A. (Tr.).
Raymont, T., M.A. (1).
Showan, P. B., M.A. Liv. (K.).
Smith, Phyllis W., T.D. (14).
Steppat, Mrs. M. A. A., M.A. Durh., M.A. (14).
Von Wyss, Clotilde R. R., T.C. Camb. (Tr.).
Wimms, J. H., M.A. Wales, B.Sc. (1).

Engineering v. *infra*

English, v. also Lib'ship
Blackman, Mrs. E., M.A. (U.).
Block, Katharine S., M.A. Dub. (Ho.).
Campbell, Mrs. K. W. (KW.).
Chambers, R. W., M.A., D.Lit. Reader in Lang. and Lit. (U.).
Classen, Ernest, M.A. Manc., Ph.D. Würz. (EL., 1).
Daunt, Beatrice M. (Old and Middle E.) (3).
Foster, Sir T. G., B.A., Ph.D. Stras. (Lang. and Lit. and Philol.) (U.).
Gollancz, Sir I., M.A., Litt.D. Camb., F.B.A. Prof. of E. Lang. and Lit. (K., KW.).
Ingram, Miss E. G., M.A. (K.)
Ker, W. P., M.A. Oxn., LL.D. Glas., Litt.D. Manc., D.Litt. Durh. F.B.A. Quain Prof. of E. Lang. and Lit. (U.).
Lee, Margaret L., M.A. Ox (KW.).
Lee, Sir Sidney, D.Litt. Ox., Litt.D. Manc., LL.D. Glas., F.B.A. Prof. of E. Lang. and Lit. (EL.).
Lobban, J. H., M.A. Aberd. (Lang. and Lit.) (3).
Paine, Mary E., T.C. Camb. (1).
Pollard, A. W., M.A. Ox. Prof. (K.).
Reed, A. W., M.A. Reader (K.).
Routh, H. V., M.A. Camb. Reader in E.Lit. (BW.).
Spurgeon, Caroline F. E., D. de l'U. Paris, Litt.D. Mich. Prof. of E. Lit. (BW.).
Thomas, P. G., M.A. Camb.& Liv. Reader in E. Lang. & Lit. (BW.).

Warren, Kate M. (Lang. and Lit.) Reader (Wf.).
Willcock, Gladys D., M.A. (Ho.).
Williams, O. T., M.A. Wales (EL.).

Entomology v. Zool.

Ethnology
Seligman, C. G., M.D., F R.C.P., F.R.S. Prof. (E.).

Eugenics [Galton Prof. (U.).
Pearson, Karl, M.A., LL.D. Camb. Aberd and St. And., F.R.S.

French, v. also Hist.
Brandin, L. M., M.A., Ph.D. Greifswald, L. ès L. Fielden Prof. of F. and Romance Philol. (U.).
Dechamps, J. A., D.Phil , D ès L Liège (EL.)
Eccles, F. Y., M.A. Ox. Prof. of F. Lit (BW)
Farrer, Lucy E., B.A., D. de l'U. Paris (Lit.) (BW).
Halket, Eliz. C., M.A. (EL.).
Honey, Margaret E. D., M.A. (F. and Romance Philol.) (Ho.).
Jeaffreson, J. W , B A. (U.).
Johnson, Fanny C., M.A. (BW.).
Kastner, V. E , B. ès L. (3).
Page, Florence, M.A. (BW.).
Perret, J. A., O.A. (4).
Perry, Mrs. M. C. A. E. (EL.).
Spiers, V., M.A. Ox., B. ès L. (K., KW.).
Stone, Louise W., M.A. (U.).
Tuke, Margaret J., M.A. Dub. (F. and Romance Philol.) (BW.).
Turquet, Mrs. Gladys R., M.A., D.Lit. (Wf)
Webb, C. D., M.A., D.Lit., B.Sc. (K.).
Williams, Mary, M.A. Wales, D. de l'U. Paris Reader (KW.).

Geography, v. also Econ.
Hosgood, Blanche, B.A. (BW.).
Lyde, L. W., M.A. Ox. (U.).
Mackinder, Sir H. J., M.A. Ox., M.P. Reader (E.).
Smith, H. G., B.Sc., A.R.C.S. (EL.).
Unstead, J. F., M.A. Camb., D.Sc. (3).

Geology
Davies, A. M., D.Sc., A.R.C.S. F G.S. (Im.).
Brade-Birks, S. G., M.Sc. Manc. (Ag).
Elsden, J. V., D.Sc. (U.).
Garwood, E. J., M.A., Sc.D. Camb., F.R.S., F.G.S. Yates-Goldsmid Prof. (U.).
Gordon, W. T., B.A. Camb., D.Sc., M.A. Edin. (Geol., including Palæont.) Prof. (K.).
Maslen, A. J., F.G.S. (11).
Smith, H.G., B.Sc., A.R.C.S. (EL.).
Watts, W. W., M.A., Sc.D. Camb., M.Sc. Birm., LL.D. St. And., F.R S., F.G.S. (Im.).
Evans, J. W., D.Sc., LL.B., F.R.S. F.G.S. (Im.).
Cullis, C.G., D.Sc., F.G.S. (Mineral.) (Im.).

German
Atkins, H. G., M.A., D.Lit., B.A. Camb. Reader (K., KW.).
Bithell, J., M.A. Manc. (3).
Delp, Wilhelmine E., D. de l'U. Paris (Ho.).
Dunstan, A. C., B.A. Lond., Ph D. Konigsberg (EL.).
Massey, Isabella M., Ph D. Marburg Reader (BW.).
Perrett, W., B.A., Ph.D. Jena Reader (U.).
Priebsch, R. C., B.A., Ph.D. Graz. Prof. (U.).
Richey, Marg. F., M.A. (Ho.).
Robertson, J. G., M.A., B.Sc. Glas., Ph.D. Leip. Prof. (U., BW.).
Steppat, J., B.A., Ph.D. Wien. Reader (K.).

Greek, Modern
Oeconomos, L., L. ès L., D. de l'U. Paris (K.).
Toynbee, A. J., B.A. Ox. Koraés Prof. (K.).

Hebrew v. Semitic

Historical Research and Archive Science
Jenkinson, H., M.A. Camb. (K.).

History and Records of London
Davis, Eliza J , M A Reader (U)

History, v. also Class. Econ., Palæog , Pol. Sc., Pub. [(U).
Adair, E. R., M.A. Camb., B.A.
Adam, Margt , M.A Edin. (BW.).
Allen, J. W., M.A. Ox. (BW.).
Cam, Helen M., M.A. (Ho.).
Clarke, F., M.A. Ox (EL.).
Davis, Eliza J., M.A. (U.).
Dymond, Dorothy, M.A. (1).
Easterling, Ruth C., M.A. Wales (1).
Green, G. E., M.A. Camb. (EL.).
Innes, A. D., M.A Ox (O.).
Jenkins, C., M.A. Ox., F.S.A. (K.).
Johnstone, Hilda, M.A. Manc. Reader (KW, 3).
Jones, A., M.A. Manc. (3).
Montague, F. C., M.A. Ox. (U).
Newton, A. P., B.Sc., D.Lit. Rhodes Prof. (K).
Phillpotts, Bertha S., O.B.E., Litt.D. Dub. (also in Icelandic) (Wf.).
Pringle, W. H., M.A. Edin., LL.B. Glas. (3).
Seton-Watson, R. W., D.Litt. Ox. (East European H.) (K.)
Skeel, Caroline A. J., D.Lit. Reader (Wf., 3).
Spalding, Ethel H., M.A. Dub. (1).

History, Ancient [Reader (U)
Baynes, N. H., M.A. Ox.
Cary, M., M.A. Ox. Reader (U., BW.).

History, English
Pollard, A. F., M.A. Ox., Litt.D. Manc., F.B.A. Prof. (U.).

Hist. and Institns., Mod. French
Mantoux, P. J., C.B , D. ès L. Prof. (U., E.).

History, Mediæval [Prof. (K.).
Hearnshaw, F. J. C., M.A., LL.M. Camb., LL.D. Dub.

History, Modern
Carlyle, E. I., M.A. Ox. (Ho).

Household Science
Dyer, Margaret (KH)

Hygiene v. Med.

Icelandic v. Hist.

Italian [Prof. (U.).
Cippico, A., Dr. Juris Graz.
Crespi, A (3).
de Castelvecchio, Miss L. P (K).
Dobelli, Emma B. (BW.).
Goad, H E , O B E , M.A Ox. Reader (U).

Law v. *infra*

Librarianship
Baker, E A., D.Litt , M A (recogd in Engl Lit)
Dir. of Univ. School of L. (U.).

Logic v. Philos.

Mathematics
Bickley, W. G , B Sc. (2).
Bryant, R., B.A., D.Sc. (4).
Churchill, W. F. S., M.A. Ox. (EL.).
Clay, R. S., B.A. Camb., D.Sc. (8).
Coates, C. V., M.A. R.U.I. (3).
Curzon, H. E. J., M.A. Camb., B.Sc. (1).
Dale, J. B., M.A. Camb. (K.).
Davidge, H. T., B.Sc., A.R.C.Sc. (U.).
Edwards, R. W. K., M.A. Camb. (K., KW.).
Forsyth, A. R., M.A., Sc.D. Camb., D.Sc. Ox., Math.D. Christ., LL.D. Glas. and Aberd., F.R.S (Im.).
Graham, J., B.E., B.A. R.U.I. (5).
Harris, H. H., M.A. Camb. (2).
Harvey, F. W., M.A. R.U.I., B.Sc. (2).

Hatton, J. L. S. M.A. Ox. (EL.).
Higgins, Ellen C., B.A. (Ho).
Hill, M. J. M., M.A., Sc.D., Camb. LL.D. St. And., F.R.S. Astor Prof. (U).
Hilton, H, M.A., D.Sc. Ox. Prof. (BW.).
Jeffery, G. B., M.A., D.Sc. (U.).
Jolliffe, A. E., M A Ox Prof (Ho)
Klugh, H., B.A. Camb. (Im)
Le Beau, G. S., M.A. Ox. (EL).
Levy, H., D Sc Ox., M A, B Sc Edin. (Im)
Lister, J., A R.C.S. (11).
Miller, T. H., M.A., D.Sc. Glas. (16).
Nicholson, J. W., M.A. Camb., M.Sc. Manc., D.Sc., F.R S. Prof. (K.).
Palmer, Mrs D, M.A, B.Sc (EL)
Pick, Marion, M.A. (Ho.).
Rhind, A., B.Sc., A.R C.S. (8).
Richardson, A. R, B Sc, A R C S. (Im.).
Rowell, Ethel M. (Ho).
Salmon, W. H., M A. Camb., B.Sc (12).
Saxelby, F. M., M.Sc. Manc., B.A (2).
Sheriff, Catherine, M.A, B.Sc. (K).
Shovelton, S. T., M.A. Ox. (K.).
Smart, E. H., M.A. Camb. (3).
Smith, R. T., B.A. Camb. (13)
Soal, S. G., M.A., B.Sc. (EL)
Storr, Muriel, M.A. Dub. (1)
Tinto, J. F., M.A. Glas., B.A Camb., D Sc. (K.).
Turner, G. C., B Sc. (7).
Whitby, Lilian J., B.A. (Wf.).
White, S. A. F., M.A. Ox. Prof. (K)
Whitehead, A. N., M.A., Sc.D. Camb., F.R.S. (Im.).
Wren, T. L., M.A. Camb. Reader (U.).
Wrigley, P. T., M.A. Camb. (Im.).
Wrinch, Dorothy M. (U.).

Maths., Applied, and Mechanics

Filon, L. N. G., B.A. Camb., M.A., D.Sc., F.R.S. Goldsmid Prof. (U.)

Medicine and Surgery v. *infra*

Metallurgy

Carpenter, H. C. H., M.A. Ox., Ph.D. Leip., A.R.S.M., M.I.M.M, F R S. (Im.).
Drinkwater, B. W., B.Sc., A.R.S.M, A R C S, A I.M.M., F I C (Im).
Merrett, W. H., A.R.S.M., M.I.M.M., F.I C. (Im.).
Naish, W A, A.R S M, M I.M M, A I C (11).

Meteorology

Shaw, Sir Napier, M.A., Sc.D. Camb, D.Sc Dub, Harv., and Manc., LL.D. Aberd. Reader.

Mineralogy v. Geol.

Mining

Cooke, L. H., A.R S.M., M.I.M.M. F G.S (Im.).
Frecheville, W., A.R.S M, M.I.M M. (Im).
Truscott, S. J, A.R.S.M., M.I.M.M., F G S (Im.).
Yates, A., M I.M.M. (Im).

Music

Allen, Sir H P., Mus.D (20).
Bridge, Sir Frederick, C.V.O., Mus.D. Ox., M A. Durh. K. Edward Prof. (20).
Corder, F., F.R.A.M. (19).
Davies, H. Walford, Mus. D. Camb., LL.D. Leeds, F.R.C.O., A R C M. (20).
Daymond, Emily R., A.R.C.M. (20).
Dunhill, T. F., A.R.C.M. (20).
Greenish, A. J., Mus. D Camb. (19).
Horner, E. F., D.Mus. Durh., F.R.C.O. (21).
Macpherson, S., F.R.A.M. (19).
Miles, P. H., A.R.A.M. (19).
Morgan, R. O., A.G.S.M. (22).
Parratt, Sir Walter, C.V.O.,

Mus.D., M.A. Ox., Mus.D. Camb. (20)
Pearce, C. W., Mus.D. Camb. (21).
Pringuer, H. T., Mus.D. Ox., F.R.C.O. (21).
Read, F. J., Mus.D. Ox. (20).
Richards, H. W., Mus.D. Durh, F.R.C.O. (19).
Robinson, Prof. H., D.Mus. Durh, F.R.C.O., F.R.A.M. (22).
Salsbury, Janet, Mus D. Durh., L.R.A.M., F.R.C O. (21).
Stanford, Sir C. V., Mus.D. Ox. and Camb., M.A, D C L, LL.D (20)
Waddington, S. P. (20).
Warriner, J., Mus D. Dub. (also in Pedag. as applied to Music) (21).
Wells, H. W., B.Mus. Ox. and Durh., F.R.C.O., L.R.A.M. (also in Pedag. as applied to Music) (11).
Wetton, H. D., D.Mus. Durh., F.R.C.O. (22, 2).
Wood, C., Mus.D. Camb., M.A., LL.D. (20).

Norwegian [(U.).
Gröndahl, I. C., Cand. Mag. Christ.

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Palæography and Econ. Hist.
Hall, Hubert, Hon Litt D. Camb., F.S.A. Reader (K).

Pedagogy v. Educ., Music

Philosophy, v. also Theol. [(U.).
Aveling, F. A. P., D.D. Rome, Ph.D. Louv., D Sc. (*Psychol.*)
Brown, W., M.A., M.D., B.Ch. Ox. D.Sc.
Reader in Psych. (K., KW.).
Carr, H. W., D.Litt. Durh. (Psychol.) Prof. (K).
Edgell, Beatrice, M.A. Wales, B.A., Ph.D. Würz.
Reader in Psych. (BW.).
Ginsberg, M., M.A. (U.).
Green, S. W., M A. (also in Theol.) (R.).
Hicks, G. D., M.A., Litt.D. Manc., Ph.D. Leip. (U.).
Johnston, J., M.A. Glas. (3.)
Oakeley, Hilda D., M.A. McG. (KW.).
Spearman, C. E., Ph.D. Leip.
Grote Prof. (U.).
Stebbing, Miss L. S. (BW.).
Wolf, A., M.A. Camb, D.Lit.
Reader in Logic and Ethics (U.) (also recogd. in Logic and Scientific Method (E.)).

Phonetics [Reader (U.).
Jones, D., M A Camb.

Physics [Quain Prof. (U.).
Bragg, Sir W. H., K.B.E., M.A. Camb, D.Sc. Manc., F.R.S.
Brinkworth, J. H., M Sc, A R.C.S. (T.).
Callendar, Prof. H. L, C.B.E., M.A. Camb., LL.D. McG., F.R.S (Im.).
Charlesworth, J., M Sc. Manc. (8).
Cheshire, F. J., C.B.E., A.R.C.Sc. (Im).
Clack, B. W., M.Sc. (3).
Clay, R. S., B A. Camb., D.Sc. (8).
Conrady, A. E. (Im.).
Eccles, W. H., D.Sc., A.R.C.Sc. (5).
Eumorfopoulos, N., B.Sc. (U.).
Fison, A. H., D.Sc., A.R.S.M. (G., L.).
Flint, H. T., M Sc. (K.).
Forsyth, R. W., A.R.C.S. (Im.).
Griffiths, A., D.Sc. Manc., A.R.C.S., F.P.S., A.I.E.E. (3).
Harlow, F. J., B.Sc., A.R.C.S. (10).
Harris, T., B.Sc., B.A. Camb., A.R.C.Sc. (EL.).
Holland, C. C., B Sc. Manc. (13).
Horton, F., D.Sc., Sc.D. Camb., M.Sc. Birm. Prof. (Ho.).
Lees, C. H., D.Sc. Manc., F.R.S. Prof. (EL.).
Lownds, L., Ph.D. Berl., B.Sc. (11).

Marsh, S., B.Sc. Wales, Ph.D. Gött. (2).
Moss, H., M.Sc., A.R.C.S., D.I.C. (Im.).
Nettleton, H. R., M.Sc. (3).
Nicol, J., B A. Camb , B.Sc. (8).
Orson-Wood, D., M.Sc., A.R.C.S. (U.).
Oschwald, U. A., B A. (11).
Owen, D., B.A. Camb., D.Sc. (3).
Philpot, A. J., B.Sc. (K.).
Polson, W , M.A., B.Sc. Aberd. (12).
Porter, A. W , D.Sc. Melb., B Sc., F.R S (Thermodyn.) Reader (U.).
Rayleigh, Rt. Hon. Lord, M.A. Camb., Sc.D. Dub., F.R.S. (Im).
Richardson, O. W., M.A. Camb., D.Sc., F.R S. Wheatstone Prof. (K.).
Russ, S., D.Sc. Joel Prof. (M.).
Skinner, S., M.A. Camb. (11).
Starling, S. G., B.Sc., A.R.C.S., A.I.E.E. (12).
Stoney, Edith A., M.A. Dub. (KH.).
Tarrant, A. G., B.Sc., A.R.C.S. (11).
Tucker, W. S., D.Sc., A.R.C.S., A.I E E. (12).
Vinycomb, T. B , M.A. R.U.I. (13).
West, G. D., D Sc. (EL).
White, W. H., B.Sc., M A. Camb., A.R.C.S. (SM.).
Wilson, W., Ph.D. Leip., D.Sc. Reader (K., KW.)
Womack, Prof. F., M.B., B.Sc. (B.).

Physics, Astronomical
Fowler, A., A.R.C.S., F.R.S. (Im.).

Physiology, v. also Bio-Chem. and Chem.
Bainbridge, F. A., M.A., M.D., D.P.H. Camb., M.A. Durh., D.Sc., F.R.C.P., F.R.S. Prof. (B.).
Bayliss, W. M., M.A., D.Sc. Ox., F.R.S. (General P.) Prof. (U.).
Collingwood, B. J., O.B.E., M.D. Camb. Prof. (SM.).
Cullis, Winifred C , O.B.E., D.Sc. Prof. (LW.).
Da Fano, C., M.D., L.D. Pavia (K.).
De Souza, D. H., M.D., B.S., D.Sc., F.R C.P. (W.).
Edkins, J. S., M.A., M.B., Sc.D. Camb. Reader (BW.).
Halliburton, W. D., M.D., LL.D., F R C.P., F.R.S. Prof. (K.).
Locke, F. S., M.A. Camb., M.D. Reader (K.).
Mellanby, J., M.A., M.D. Camb. Prof. (T.).
Mottram, V H., M.A. Camb. Prof (KH).
Pembrey, M. S., M.A., M.D., B.Ch. Ox. Prof. (G.).
Roaf, H E., M.D. Tor., D.Sc. Liv. Prof. (L.).
Schryver, S. B , Ph.D. Leip., D.Sc. (Im.).
Starling, E. H., C.M.G., Sc.D. Camb., M.D., B.S., F.R.C.P., F.R.S. Jodrell Prof. (U.).
Symes, W. L., M.R.C.S. (9, 22*a*).
Vincent, T. S., D.Sc. Edin., M.D. Prof. (M.).
Waller, A. D., M.D , C.M. Aberd., LL.D., F.R.S. (Dir. of Lab.) Prof. (22*a*).

Political Science, v. also Econ.
Wallas, Graham, M A. Ox. (recogd. in Const. History) Prof. (E.).
Laski, H. J. (E.).

Political Theory
Dickinson, G. L., M A. Camb (E.).

Portuguese [Camoens Prof. (K.).
Young, G., M.V.O.

Public Administration, v. also Econ.
Grimshaw, H. A., M.Sc: (Econ.), B.A. (P.A. & Ec. Hist.) (E.).

Hurst, G. H. J. (v. Law) (3).
Lees-Smith, H. B., M.A. Ox. (P.A and Economics) (E.)
Reeves, Hon. W. Pember, Ph D. Athens (P.A. and Hist.) (E.).
Webb, S. J., LL.B. Prof. (E.).

Public Health v. Med.

Russian, v. also Slav.
Pares, Sir Bernard, K.B E., M.A. Camb. Prof. (K.).
Meyendorff, Baron A F. (R Institns etc) (K)
Raffi, Arshak (K)
Smith, R (R Philol. & Lit) (K)

Scandinavian v. Dan., Ice , Nor., Swe.

Semitic Languages
Box, G. H., M.A Ox., D.D. St. And. (Hebrew) (KT.).
Buchler, A., Ph.D. Leip. (6).
Daiches, S., Ph D Leip. (6).
Gollancz, H , M.A., D Lit. (Heb , Aramaic, Syriac) (U.).
Greenup, A. W., M A. Dub. and Camb., D.D. Ont., Litt.D Dub. (Heb. & Aramaic) (J.).
Hirschfeld, H., Ph.D. Stras. (S. Epig. & Hebrew & S) (U., 6).
Marmorstein, A., Ph.D. Heid (Bible and Rabbinics) (6).

Slavonic Lit. and Sociol., v. also Rus. [(K.)
Masaryk, Prof. T. G., Ph.D. Vien.

Sociology, v. also Econ.
Hobhouse, L T., D.Litt. Durh., M.A. Ox., LL.D. St. And. Martin White Prof. (E.).
Westermarck, E. A., Ph.D. Hels., LL.D. Aberd. Martin White Prof. (E.).

Spanish
Barragán, J. V. (EL.).
Pastor, A. R., D.Ph. Madrid, B.Litt. Ox. Cervantes Reader (K.).
Plà, José, B A. Vale. (K.).
Villasanté, J. M., LL D. Madrid. (K.).

Statistics [Prof. (E.).
Bowley, A. L., M.A., Sc.D. Camb.

Surveying v. Engin.

Swedish
Bjorkhagen, O. I., Phil Mag. Ups. (U.).

Theology
Andrews, H. T., B.A. Ox., D.D Aberd. (N., H).
Barber, W T. A , M A , D.D. (WR)
Box, G. H. (v. Semitic) (KT).
Davies, Prof. W. A , M.A. Ox., and Wales, B.D. (N., H.).
Dearmer, P., D.D. Ox. (K.).
Forsyth, P T., M.A , D.D. Aberd. (H.).
Garvie, A. E., M.A. Glas. and Ox., D.D. Glas (N , H.).
Gore, Rt. Rev. C , D.D., D.C.L. Ox., D.D. Edin. and Durh., LL D. Camb. and Birm. (K).
Gould, G. P., M.A , D.D. Glas. (R.).
Green, S. W., M A. (R).
Greenup, A W. (v Semitic) (J.).
Harden, J. M., M.A., B.D., LL.D. Dub. (J.).
Jenkins, C., M.A. Ox , F S.A. (KT.).
Matthews, W. R., M A., B.D. (also in Philos.) (KT.).
Relton, H. M., D.D. (KT.).
Robinson, H. W., M A. Ox. and Edin (R)
Rogers, C. F., M.A. Ox. (KT.).
Scullard, H. H., M.A. Camb., D.D. (N., H.).
Smith, C. R., B.A , D D. (WR).
Smith, H., M.A. Camb., D.D. (J.).
Titterton, C. H., M.A , B.D. Edin. (J.).
Waterhouse, E. S., M.A , B.D. (WR.).

Transport, Economics of, v. also Com. [(E.).
Stephenson, W. T., B.A. Camb.

Veterinary Science
Cave, T. W., F.R.C.V.S. (Ag.).

Vet. Anatomy
..... (9).

Vet Hygiene
Edwards, J T, B.Sc (9)

Vet. Path. and Bacteriology
McFadyean, Sir John, LL.D., M.B., C.M., B.Sc. Edin., M.R.C.V.S. Prof. (9).

Zoology, v. also Agr.
Alcock, Col. A. W., C I.E., C.M., M.B, LL D. Aberd., F.R S. (Medical Z.) Prof. (TM.).
Bacot, A. W. (Med. Entomology) (LI).
Buchanan, Florence, D.Sc. (Ho.).
Cunningham, J. T., M A Ox, F.Z.S. (7, 11, EL).
Dendy, A , D.Sc. Manc., F.R.S. Prof. (K., KW).
Evans, T. J., M A. Ox. (v. Biol.) (G).
Gatenby, J B., B.A., B Sc. Ox., D Phil Ox. (U.).
Hill, J. P., D.Sc. Edin , F.R.S. (Z. and Comp. Anat.) Jodrell Prof. (U.).
Lefroy, H. M., M.A Camb.. F.L.S. (Entomol.) Prof. (Im.).
MacBride, E. W , M.A. Camb., D.Sc , LL.D McG., F.R.S. (Im.).
Mackinnon, D. L., D.Sc. Aberd (K.).
Mudge, G. P., A.R.C.S., F.Z.S. (EL.).
Nutt, Muriel M. (11).
Thomson, J. G., M.A., M.B., Ch.B. Edin. (TM.).
Tims, H. W. M , O.B.E., M.A. Camb., M.D , Ch.M. Edin , F.L.S., F.Z.S. Reader (BW.).
Unthank, H. W., B.A , B Sc. (v. Biol) (3).
Watson, D. M. S., M.Sc. Manc. (Vertebrate Palæont.) (U.).
Woodcock, H. M., D.Sc. (Protozoology) (LI.).

Engineering, v. also Metall., Mining

Aviation
Glazebrook, Sir R. T., K.C.B., Sc.D Camb., D Sc Ox., F.R.S Zaharoff Prof. (Im).
Piercy, N. A. V., D.Sc (Eng.) (EL.).

Civil Engineering
Barker, A. H., B.A., B Sc. (Heating and Ventg. E) (U.).
Capper, D. S., M.A. Edin., M.I.C.E., M I E E , M.I.M E (C and Mech E.) Prof (K.).
Coker, E. G , M A. Camb., D Sc. Edin., M.Sc McG , A R.C S., M.I.C E , F.R.S. (Civ. and Mech. E.) Prof. (U.).
Curnock, W. E. M , M.Sc (Eng.) Manc., B.Eng. Liv., A.M.I.E.E. (Civ. and Mech. E) (2).
Dalby, W. E , M A. Camb., B.Sc., M.I C E., M.I M.E., A.M.I.N.A., F R S (C. & Mech E) Prof (Im)
Dixon, S. M , M.Sc., M.A., B.A.I. Dub., M.I.C.E. (Im.).
Genève, L F C A , B Sc (Eng), A.C G.I (C. & Mech. E) (K).
Jameson, A H., M.Sc. Manc., M.I.C.E. Prof. (K.).
Lamb, E. H., D.Sc., M.Sc. Manc., A.M.I.C.E , M.I.M.E. (Civ. & Mech. E.) Prof (EL.).
Lobban, C. H., B.Sc (Eng) Glas., A.M.I.C.E (K).
Margetson, A. J., M.Sc. Bris. B.Sc., M.I.M.E. (Civ. and Mech. E.) (5).
..... Chadwick Prof.
Newton, K., B.Sc. (Eng.), A.C.G.I., A.M.I.C E. (Civ. and Mech. E.) (Im.).

Ormsby, M. T. M., A.R.C.S. Dub., M.I.C.E.I. (Surveying) Reader (U.).
Purser, J., B.A., B.A.I. Dub., M.Sc. Birm., A M I.C.E. (Im.).
Rice-Oxley, M. K., A.C.G.I., A.M.I.C.E. (Im.).
Smith, S. L., B.Sc. (Eng.) (Civ. and Mech. E.) (Im.).
Wedgwood, G. A., M.Sc. (Eng.) Belf., B Sc. (Eng) (Civ. and Mech E.) (EL.).
Whittaker, H., B Sc. (Eng.), A.R.C S., A.M.I.M E. (Civ and Mech. E) (Im.)
Witchell, E. F. D , B.Sc., A.C.G.I. (Civ. and Mech. E.) (Im.).

Electrical Engineering

Baillie, T. C , D.Sc , M.A. Edin A.M I.E E (12)
Burgess, A F , B.Sc (Eng) (7)
Catterson-Smith, J K , M.I.E.E. (5)
Clinton, W. C., B.Sc., M.I.E.E. (U.).
Denton, F. M., A.C.G.I. (7).
Dover, A. T., A.M.I.E.E. (2).
Dowse, C. M., B.Sc. (Eng) (7).
Hague, B., M.Sc., A.C.G.I. (Im)
Eccles, W. H., D.Sc., A.R.C.Sc. (5).
Fleming, J. A., M.A. Camb., D.Sc., F.R.S. Prof. (U.).
Howe, G. W. O., D.Sc. Durh. and Adel., M.I.E.E. (Im.).
John, W. J., A.R.C.Sc , A.M.I.E.E. (EL).
Jolley, A. C. (7).
Macgregor-Morris, J. T., M.I.E.E., A.I.C.E. (EL.).
Mather, T., F.R.S. (Im.).
Olive, C. E , B Sc. (2)
Oschwald, U. A., B.A. (11).
Robertson, F. S., M.I.E.E. (K.).
Rushton, A., M.Sc. (Tech.) Manc. (Im.).
Shawcross, R. E., A.M.I.C.E. (K.).
Smith, S. P., D.Sc. Durh., A.M.I.C.E., M.I E.E. (Im.).
Walmsley, R. M., D.Sc., M.I.E.E. (7).
Wilson, E., M.I.C.E., M.I.E.E. W. Siemens Prof (K.).

Engineering Design

Cruickshank, A., M.I.M.E. (Im.).
Sillick, W. E. G., A.R.C.S., D.I.C. (Drawing and Design) (Im.).

Mech. Engin , v. also Civ. E.

Ashworth, M. H., B.Sc. Manc. (13).
Chappell, E., B.Sc., A.M.I.C.E., A C.G I. (Im.).
Davies, V. C., B.Sc., A.M.I M E. (2).
Edmonds, H. M , B.Sc. (Eng.) (2).
Guest, J. J M.A. Camb., M.I.M.E. (Graphics and Structl. E.) Reader (U.).
Hewson, W., B.Sc., A.R.C.S., A.M.I.C.E. (Im.).
Howard, J. V., B.Sc. (Eng.) (Im.).
Keith, D. A., A.M.I.C.E (Structl. E.) (7).
Larard, C. E , M.I.M.E., M.I.C.E. (7).
Limbourne, C. W. (13).
Mallett, W C., B Sc. (Eng.) (EL).
Philpot, H. P., B.Sc., A.M.I.C.E , A.M.I.M.E. (U.).
Richardson, D. (7).
Scoble, W. A , D Sc. (Eng.), A R.C.S., M.I.M E., A M.I.C.E. (5).
Shaw, J. B., A.R C S. (2).
Sprague, E. H., A.M.I.C.E. (U.).
Wells, G. J., A.M.I.C.E., M.I E.E., M.I.Mar.E. (EL.).

Mech. Engin and Surveying

Duncan, J., M.I.M.E. (12).

Law

Commercial [(E.).
Ball, W. V., O.B.E., M.A. Camb.
Humphries, S., B.A., LL.B. Camb. (4).
Le Quesne, C. T., B.A. Ox. (Industr. and C. L.) (E.).

Page, A., B.A. Ox. (also Crim. L. and Proc., K.) (E.).

Comml. and Industrial
Gutteridge, H. C., M A Camb Cassel Prof.

Common
Griffith, W. H , M A Camb. (K).

Comparative [Quain Prof (U.).
de Montmorency, J E G., M A., LL.B (Camb)

Constitutional [Prof. (U , E).
Morgan, J. H., B.A. Ox., M A.

English
Hurst, G. H. J., M.A., LL M Camb. Reader (U.)
Mackay, H. J. H., M.A., LL.B. Glas (K)

Hindu and Mohammedan
Sabonadière, A. (O.).

International
Higgins, A. P., C.B E., M.A., LL.D Camb. Prof. (E.).

Jurispr. and Roman
Hibbert, W. N., LL.D. (K.).
Murison, A. F., M.A., LL.D Aberd. (U.).

Medicine

Anæsthetics
Braine, C. C., F.R.C S. (C.).
Chaldecott, J. H., L.R C P. (SM.).
Cross, W. F., M.R.C S , L R C.P. (B)
Gandy, E. W , B A. Camb., M.R.C.S., L.R.C.P. (W.).
Low, H., M A , M B., B.Ch. Camb. (T.).
Probyn-Williams, R. J., M.D. Durh. (L.).
Shipway, F. E., M.A., M.D , B.Ch. Camb. (G.).
Shirley, H. J., C.M G., M.D., F.R.C.S. (UM.).
Silk, J. F. W., M.D. (KM.).

Aural Surgery [(KM.).
Cheatle, A. H., C.B.E., F.R.C.S.
De Santi, P. R. W., F.R.C.S. (W.).
French, J. G , M.S., M.B., F.R.C.S. (also in Laryng.) (LW.).
Grant, Sir J. D., K.B.E., M.D., C.M., M.A. Edin., F.R.C.S. (also in Laryng) (24).
Layton, T. B., M B., M.S., F.R.C.S. (G.).
Lees, K. A., M A., M.B., B.Ch. Camb., F.R.C.S. (also in Laryng.) (SM.).
Marriage, H. J., M.B., B.S., F R C.S. (T).
Mollison, W. M., C.B.E., M.A., M.Ch. Camb., F.R C.S. (G.).
Scott, S. R., M.S , M.B , F.R.C.S. (B., 26).
Tilley, H., M.D., B.S., F.R.C.S. (also in Laryng.) (UM.).
Tod, H. F., M.D., B Ch , M.A. Camb., F.R.C.S. (L.).
Waggett, E. B., M.A., M.B., B.Ch. Camb. (also in Laryng.) (C.).
West, C. E., F.R.C.S. (B.).

Bacteriology, v also Anat., Path.
Bulloch, W., M.D., C.M., LL.D. Aberd., F.R.S. (recogd. in Path.) Goldsmiths' Prof. (L.).
Emery, W. d'E., M.D., B.Sc. (also in Path) (KM.).
Eyre, J. W. H., M.D., M.S. Durh., D.P H. Camb Prof. (G.).
Freeman, J., D.M., B.Ch. Ox., M A (SM.).
Goadby, Sir K. W., K.B.E., L.R.C.P., M.R.C.S., L.D.S., D.P.H. Camb. (ND.).
Gordon, M. H., B.Sc., D.M. Ox. (B.).
Hewlett, R. T., M.D., F.R.C.P., D.P.H. (recogd. in Path.) Prof. (K.).
Hunt, E. L., D P.H. Camb., M.B., B.S. (also in Path.) (SG.).
Ledingham, J. C. G., C.M.G., M.A., M.B., Ch.B., D.Sc. Aberd. Prof. (LI.).

Nabarro, D. N., B.Sc., M D., D.P.H.. F.R C.P. (25).
Petrie, G. F., M.D., Ch B. Aberd. (LI).
Taylor, F. E., M D , B.S., M A., M.Sc. Manc , M B., Ch B., D.P.H. Camb., F.R.C.S. (K)

Dermatology, v. also Surg. [(B)
Adamson, H G , M.D., F.R.C P
Barber, H W , B.Ch , M.B., M.A. Camb., M.R C P. (G.).
Davis, Haldin, B.M Ox , F.R.C S (LW)
Dore, S. E., M.A , M.D., B.Ch. Camb., F.R C.P. (W.)
Fox, W. S , M.D., B Ch., M.A. Camb., F.Z.S. (SG).
Galloway, Sir J., K.B E., C.B , M.A., M.D., C M. Aberd , F R C P , F.R.C S. (C).
Gray, A. M. H , C B E., M D , B.S , F.R.C S., F.R C.P. (UM).
Little, E. G. G., B A Cape, M.D , F.R.C.P (SM.).
Macleod, J. MacL. H , M D , C.M., Aberd., M.A. St. And , F.R.C.P. (C).
Pringle, J. J., C.M , M.B. Edin , F.R.C P (M).
Sequeira, J. H., M.D., F.R.C P , F.R C S. (L).
Stainer, E., M.A., M.D., B Ch. Ox., F.R.C.P (T.).
Whitfield, Prof. A., M.D., F.R.C.P. (KM).

Diseases of Children [(25).
Barrington-Ward, L. E., M.Ch. Edin., F.R.C.S. (25).
Colman, W. S., M.D., F.R.C.P.
Frew, R. S., M D. Edin., M.R.C.P. (25).

Dis. of Child. & Medicine [(G)
Cameron, H. C., M.A Camb. and Glas., M.D. Camb., F R.C.P.
Fletcher, H. M., M.A., M D , B Ch. Camb., F.R.C.P. (B.).
Hutchison, R. (v. Pharm.) (25, L).
Poynton, F. J., M.D., F.R C.P. (25, UM.).
Still, G. F., M.D., B.Ch , M A. Camb., F.R C.P. (25, KM).
Thompson, H. T , M.D , B.Ch., M A. Camb., B.Sc., F.R.C.P., F R C S. (Chn. M.) (25, L.).
Thursfield, J. H., D M , M A. Ox , F.R.C.P. (25, B).
Voelcker, A. F , M.D , B.S., F.R.C.P. (25, M).

Dis. of Child., & Surg [(25, C).
Fairbank, H. A. T., O B.E., M S , M.B., F.R.C.S., L.D.S.
Kellock, T. H., M D., M Ch Camb., M.A., F.R C S. (25, M.).
Lane, Sir W. A., Bart., C.B., M.S., M B , F.R.C.S. (25, G.).

Dis. of Women
Hedley, J. P., M.A., M.Ch., M B. Camb , F R.C.S (T.).
Vaughan-Sawyer, Mrs., M.D., B.S , D.Sc., LL D. Glas. (LW.).

Dis. of W., and Midwifery
Barrett, Lady, C B.E., M.D., M.S , B.Sc (LW.).
Barris, J. D , B.A., M.B , B Ch. Camb., F.R C S (B.).
Berkeley, G H. A C , M A , M D , M.Ch. Camb., F.R C.P. (M.).
Bonney, W. F. V., M.D., M.S., B.Sc , F.R C.S. (M.).
Chapple, H., M.A., M.Ch., M.B. Camb., B Sc., F.R.C.S. (G.).
Donaldson, M , M B., B Ch Camb , B A. (B.).
Fairbairn, J. S., M.A., M.B., B.Ch. Ox., F.R.C.P., F.R.C.S. (T.).
Holland, E. L., M.D., F.R.C.S., F R C P. (L.).
Luker, S G., M D Camb., M.A. (L.).
Playfair, H. J. M., M.D , F.R.C.P., F.R.C S. (KM.).
Robinson, G. H. D., M.D., B.S., F.R.C.P. (W.).

Roy, D. W., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Williamson, H., M.A., M.B., B.Ch. Camb., F.R.C.P. (B.).

Forensic Med., v. also Chem.—Path.
Brend, W. A., M.A. Camb , M.D., B.Sc. (C.).
Jones, G., M.A., B.M. Ox., D.P.H. (L).
Lyster, R. A., M.D., Ch.B , B.Sc. (Pub. Health), D.P.H. Birm., B.Sc. (also in Hyg.) (B).
Smith, E., M.D. (T).
Smith, Prof. W. R., M.P., M.D., C.M. Aberd., D.Sc. Edin., D.P.H., LL.D. Camb. (KM.).

Helminthology
Leiper, R. T., D.Sc., M.B., Ch.B. Glas. Prof. (TM.).

Hygiene, v. also For. Med.
Brincker, J. A. H., B.A., M.B., B.Ch. Camb., D P.H., F I C (BW., SM.).
Brown, R. K., M.D., B.Ch., B.A.O., B.A. R.U.I., D.P.H. (G.).
Copeman, S. M., M.A. Camb., M.D., F.R.C.P., D.P.H. (W.).
Fegen, C. M., M.R.C.S., D.P.H. (SG.).
Foulerton, A. G. R., O.B.E., D.P.H.Camb.,F.R.C.S.,F.C.S. (LW.).
Kenwood, H. R., C.M.G., C.M., M.B. Edin., F.C.S., D.P.H. Chadwick Prof. (U.).
Lane-Claypon, Janet E., M.D., D.Sc., B.S. (KH.).
Lyster, R. A., B.Sc., M.D., D.P.H. Birm. (v. Forensic) (B.).
Porter, C., M.D., B.Sc. Edin. (M.).
Simpson, W. J. R., C.M.G., M.D., C.M. Aberd.,F.R.C.P., D.P.H. Camb. Prof. (K., KM.).
Sommerville, D., M.D., B.Ch., B.A.O., M.Sc., B.A. R.U.I., F.C.S., D.P.H. Camb. (K.).
Spitta, H. R. D., M.V.O., M.D., B.S. Durh., D.P.H. Camb. (SG.).

Laryngology, v. also Aural Surg.
Barwell, H. S., M.B., F.R.C.S. (SG.).
French, J. G., M.B., M.S., F.R.C.S. (LW.).
Graham, C. I., F.R.C.S. (SM.).
Grant, J. D., C.M., M.A., M.D. Edin , F.R.C S. (24).
Harmer, W. D., M Ch., M.B., M.A. Camb., F.R.C.S. (B.)
Howarth, W. G., M.A., M.B , B.Ch. Camb., F.R.C.S. (T.).
Lack, H. L., M.D., F.R.C.S. (L.).
Layton, T. B , M.B., M.S., F.R.C.S. (G.).
Mollison, W. M., C.B.E., M.A., M.Ch. Camb., F.R.C.S. (G.).
Rose, F A., M.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Thomson, Prof. Sir St. Clair, M.D. Lond. and Laus., F.R.C.P., F.R.C.S. (KM.).
Tilley, H., B.S., M.D., F.R.C.S. (UM.).
Waggett, E. B., M.B , B.Ch., M.A. Camb. (C.).

Medical Statistics
Greenwood, M., Junr., M.R.C.P., M.R C.S. Reader (U.).

Medicine and Clin. Med., v. also Chem.—Path., Dis. of Child., Path., Pharmacol.
Abrahams, A., M.D. Camb., B.A. (W.).
Beaumont, G. E , B.M , M.A. Ox., F.R.C.P., D.P.H. (M.).
Beddard, A. P., M.D., B.Ch., M.A. Camb , F.R.C.P., F.R.C.S. (G.).
Bolton, C., C.B.E., M.D., B.S., D.Sc., F.R.C.P., F.R.S. (UM.).
Bosanquet, W. C., M.A., D.M. Ox., F.R.C.P. (C., 24).
Box, C. R., M.D., B.S., B.Sc., F.R.C.P., F,R.C.S. (T.).

Bradford, Prof. Sir J. R., K.C.M.G., C.B., C.B.E., M.D., D.Sc., F.R.C.P., F.R.S. (UM.).
Branson, W. P. S., C.B.E., M.D., B.Ch., B.A. Camb., F.R.C.P. (LW.).*
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Brown, W. L., M.A., M.D., B.Ch. Camb., F.R.C.P. (B.).
Buzzard, E. F., M.D., B.Ch., M.A. Ox., F.R C.P. (26).
Cameron, H. C., M.A. Camb. and Glas., M.D. Camb., F.R C.P. (G.).
Carlill, H., M.A., M.D. Camb., M.R.C.P. (W.).
Carr, J. W., M.D., B.S., F.R.C.P., F.R.C.S. (LW.).
Cassidy, M. A., M.A., M.D., B.Ch. Camb., F.R.C.P. (T.).*
Cockayne, E. A., M.A., D.M. Ox., Ch.B., F.R.C.P. (also in Pharmacology) (M.).
Collier, J. S., M.D., B.Sc., F.R.C.P. (SG., 26).*
Crawfurd, R. H. P., M.D., B.Ch., M.A. Ox., F.R.C.P. (KM.).
Dawson of Penn, The Rt. Hon. Lord, K.C.M.G., G.C.V.O., C.B., M.D., B.Sc., F.R.C.P. (L.).
De Souza, D. H., M.D., D.Sc., F.R.C.P. (W.).*
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Fawcett, J., M.D., B.S., F.R.C.P., F.R.C.S. (G.).
Fenton, W. J., M.A., M.D., B.Ch. Camb., F.R.C.P. (C., 24).*
Firth, A. C. D., M.A., M.D., B.Ch. Camb (LM.).
Fletcher, H. M., M.A., M.D., B.Ch. Camb., F.R.C.P. (B.).
Forsyth, D., M.D., D.Sc., F.R C.P. (C.).
Fraser, F. R., B.A. Camb., M.B., F.R.C.P. Edin Prof. (B).
French, H. S., C.B.E., M.D., B.Ch., M.A. Ox., F.R.C.P. (G.).
Galloway, Sir J. (v. Dermatol.) (C.).
Garrod, Sir A. E., K C.M.G., M.A. Ox , M.D. Dub , F.R.C P , F.R S (B.)
Golla, F. L., O.B.E., M.A., M.B., B.Ch. Ox., F.R.C.P. (SG.).*
Gosse, A. H., M.D., M.A. Camb. (SM.).
Gregory, Mrs. H. H. C., M.D. (LW.).
Hadley, W. J., M.D. Durh., F.R.C.P., F.R.C.S., D.P.H. Camb. (L.).
Harris, W., M.D., B Ch. Camb., B.A., F.R C.P., F.C.S. (SM.).
Hartley, P. H.-S., C.V.O., M.D., B.Ch., M.A. Camb., F.R.C.P. (B., 24).
Hawkins, H. P., M.D., B.Ch., M.A. Ox.. F.R.C.P. (T.).
Head, H., M.A., M.D. Camb., F.R.C.P., F R.S. (L.).
Herringham, Sir W. P., K.C.M.G., C.B., B.A., M.D. Ox. and Dub., F.R.C.P. (B.).
Holmes, G. M., C.M.G., C.B.E., M D. Dub., B.Ch., B.A.O., B.A., F.R.C.P. (26).*
Horder, T. J., M D., B.Sc. (B.).
Hunt, G. H., M.A., D.M., B.Ch. Ox., F.R.C P. (G.).
Hurst, A. F. (v. Neurol.) (G.).
Jex-Blake, A. J., M.A., M.D., B.Ch. Ox., M.D., F.R.C.P. (SG., 24).*
Kidd, P., M.A., D.M. Ox., F.R.C.P. (L.).*
Lakin, C. E., M.D., B.S., F.R.C.S., F.R.C.P. (M.).
Langmead, F. S., M.D., F.R.C.P. (SM.).

Latham, A. C., M.A., D.M., B.Ch. Ox., M.A. Camb., F.R.C.P. (SG.).
Lewis, T., M.D., D.Sc. Wales, F.R.C.P., F.R.S. (UM.).
MacCormac, H., C.B.E., M.B., Ch.B. Edin., F.R.C.P. (M.).*
Mackenzie, H. W. G., M.A., M.D. Camb., F.R.C.P. (T.).
MacLean, H., M.D., Ch B. Aberd., M.Sc. Liv., D.Sc. Prof. (T.).
Miller, C. H., C.B.E., M.A., M.D., B.Ch. Camb., F.R.C.P. (L.).*
Miller, R. H., M.D., B.S., F.R.C.P. (SM.).*
Mutch, N., M.A., M.D., B.Ch. Camb., F.R.C.P. (G.).
Ogle, Cyril, M.A., M.D., B.Ch. Ox., F.R.C.P. (SG.).
Parkinson, J., M.D, (L).
Perkins, J. J., M.A., M.B., B.Ch. Camb., F.R.C.P. (T., 24).
Phear, A. G., C.B., M.D., B.Ch., B.A. Camb., F.R.C.P. (LW.).
Poulton, E. P., M.A., M.D., B.Ch. Ox., F.R.C.P. (G.).
Poynton, F. J., M.D., F.R.C.P, (UM.).
Rolleston, Sir H. D., K.C.B., M.A., M.D., B.Ch Camb., F.R.C.P. (SG.).
Rowlands, R. A., B.Sc., M.D. (L.).
Russell, A. E., M.D., B.S., F.R.C.P. (T.).
Russell, J. S. R., M.D., C.M. Edin., F.R.C.P. (26).
Saunders, P. W., B.A., M.B. Tor., F.R.C.P. (LW.).
Shaw, H. B., M.D., B.S., F.R.C.P., F.R.C.S. (UM., 24).
Smith, L. A., M.D., F.R.C.P. (L.).
Stewart, Sir J. P., K.C.M.G., C.B., M.D., C.M., M.A. Edin., F.R.C.P. (W.).
Stewart, T. G., M.D., Ch.B. Edin., F.R.C.P. (26).*
Still, G. F., M.A., M.D., B.Ch. Camb., F.R.C.P. (KM.).
Stoddart, W. H. B., M.D., B.S., F.R.C.P. (23).
Stott, A. W., M.A., B.Ch. Camb. (W.).
Taylor, J., C.B.E., M.A., M.D. Edin., F.R.C.P. (26).
Thompson, H. T., M.A., B.Ch., M.D. Camb., B.Sc., F.R.C.P., F.R.C.S. (L.).
Thursfield, J. H., M.A., D.M. Ox., F.R.C.P. (25).
Tidy, H. L., M.A., D.M., B.Ch. Ox , F.R.C.P. (T.).
Tooth, H. H., C.B., C.M.G., M.A., M.D. Camb., F.R C.P. (B.,* 26).
Torrens, J. A., M.B., B.S., M.R.C.P. (SG.).
Turner, W. A., C.B., M.D., C.M. Edin., F.R.C.P. (KM.,* 26).
Turney, H. G., O.B.E., D.M., M.Ch., M.A. Ox., F.R.C.P., F.R.C.S. (T.).
Voelcker, A. F., M.D., B.S., F.R.C.P. (M.).
Wall, R. C. B., D.M., B.Ch., M.A. Ox., F.R.C.P. (L.,* 24).
Ward, G. E. S., M.D., B.S. (M.).*
Wiltshire, H. W., M.A., M.D., B.Ch.Camb.,F.R.C.P.(KM.).*
Wilson, C. McM., M.D. (SM.).
Woodwark, A. S., M D. (W.).
Wynter, W. E., M.D., B.S., F.R.C.P., F.R.C.S. (M.).
Young, R. A., C.B.E., M.D., B.Sc., F.R.C.P. (24).

Mental Diseases

Armstrong-Jones, Sir Robert, C.B.E., M.D., B.S., F.R.C.P., F.R.C.S. (B.).
Chambers, J., M.A., M.D., M.Ch. R.U.I. (M.).
Cole, R. H., M.D., F.R.C.P. (SM.).
Craig, M., C.B.E., M.A., M.D., B.Ch. Camb., F.R.C.P. (G.).

* Clinical.

Hart, B., M.D. (UM.).
Macnamara, E. D., M.A., M.D., B.Ch. Camb., F.R.C.P. (C.).
Norman, H. J., M B. Edin., D.P.H. Edin. & Glas (W).
Phillips, J. G. P., M.D., B.S. (23).
Smith, R. P., M.D., B.S., F.R.C.P. (T.).
Steen, Prof. R. H., B.A. R.U.I., M.D. (KM).
Will, J. K., M.A., M.D., C.M. Aberd. (L.).

Midwifery, v. also Dis. of W.
Andrews, H. R., M.D., B.S., F.R.C.P. (L).
Blacker, G. F., M.D., B.S., F.R.C.P., F.R.C.S. (UM).
Bourne, A. W., B.A., M.B., B.Ch. Camb., F.R.C.S. (SM.).
Dodd, S., M.A., M.B., B.Ch. Camb., F.R.C.S.E. (W.).
Eden, T. W., M.D., C.M. Edin., F.R.C.P., F.R.C.S.E. (C.).
Gilliatt, W., M.D., M.S., F.R.C.S. (KM).
Smith, G. Bellingham, M.B., B.S., F.R.C.S. (G.).
Smith, G. F. D., M.A., B.M., B.Ch. Ox., F.R.C.S. (SG.).
Spencer, Prof. H. R., M.D., B.S., F.R.C.P. (UM.).
Stevens, T. G., M.D., F.R.C.S. (SM.).

Neurology
Birley, J. L., M.A., B.M., B.Ch. Ox., F.R.C.P. (T.).
Howell, C. M. H., M.A., D.M. Ox., F.R.C.P. (26).
Hurst, A. F., M.D., B.Ch., M.A. Ox., F.R.C.P. (G.).
Saunders, P. W., B.A., M.B. Tor., F.R.C.P. (26).
Thomson, H. C , M.D., F.R.C.P. (M.).
Wilson, S. A. K., M.A., B.Sc., M.D. Edin., F.R.C.P. (26).

Ophthalmology
Cargill, L. V., F.R.C.S. (KM.).
Collins, E. T., F.R.C.S. (27, C.).
Eason, H. L., C.B., C.M.G., M.D., M.S. (G.).
Fisher, J. H., M.B., B.S., F.R.C.S. (T., 27).
Flemming, P., M.D., B.S., F.R.C.S. (UM., 27).
Greeves, R. A., M.B., B.S., B.A. R.U.I., F.R.C.S. (M.).
Grimsdale, H. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Hepburn, M. L., M.D., B.S., F.R.C.S. (LW., 27).
Holmes, G. M., C.M.G., C.B.E., B.A., M.D., B.Ch. Dub., F.R.C.P. (27).
Hudson, A. C., M.A., M.D., B.Ch. Camb., F.R.C.S. (27).
James, R. R., F.R.C.S. (SG.).
Jeremy, H. R., F.R.C.S , L.R.C.P. (L.).
Juler, F. A., M B., B.Ch., M.A. Camb., F.R.C.S. (SM).
Lawson, Sir A , K.B E., M.D. Brux., F R C.S. (M.).
Lister, Sir W. T., K.C.M.G., M.B., B.Ch., B.A. Camb., F.R.C.S. (L.).
Lyle, H. W., M.D., B.S., F.R.C.S. (KM.).
Moore, R. F., O.B.E., M.A., B.Ch. Camb., F.R.C.S. (B., 27).
Ormond, A. W., F.R.C.S. (G.).
Parsons, J. H., C.B.E., D.Sc., M.B., B.S., F.R.C.S. (UM., 27).
Paton, L. J., M.B., B.Ch., B.A. Camb., F.R.C.S. (SM., 26).
Roxburgh, A. B., M.A., M.B., B.Ch. Ox., F.R.C.S. (L.).
Spicer, W. T. H., M.A., M.B. Camb., F.R.C.S. (B., 27).
Worth, C. A., F.R.C.S. (27).

Pathology, v. also Anat.—Morb., Chem., Bact.
Andrewes, Sir F. W., O.B.E., M.A., M.D., B.Ch. Ox., F.R.C.P., D.P.H. Camb., F.R.S. (recogd. in Bact.) Prof. (B.).

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Donaldson, R., M.A., M.D., D.T M. Edin., D.P.H., F.R.C S. (SG).
Dudgeon, L. S., C.M.G., C.B.E., F.R.C.P. (also in Bact.) Prof (T).
Hicks, J. A. B., M.D., B.S., D.P.H (recogd. also in Bact.) (W).
Hunter, W., C.B., M.D., C M. Edin , F.R.C.P. Reader (C.).
Inman, A. C., M.A., M.B., B.Ch. Ox. (24).
Kettle, E. H., M.D. (SM.).
Lakin, C. E., M.D., B.S., F.R.C.P., F.R.C.S. (also in Med.) (M.).
Lawrence, T. W. P., M.B., F.R.C.S. (UM.).
Lepper, Eliz. H., O.B.E., M.B., B.S. (LW.).
McIntosh, J., M.D. Aberd. Prof. (M.).
Martin, S. H. C., M.D., B.S., B.Sc., F.R.C.P., F.R.S. (also in Med.) (UM.).
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Topley, W. W. C., B.A., M.D., B.Ch. Camb., F.R.C.P. (C.).

Pathology, Experimental

Laidlaw, P. P., M.A., B.Ch. Camb. (G.).
Lazarus-Barlow, W. S., M.D., B.Ch. Camb., F.R.C.P. Prof. (M.).
Martin, C. J., D.Sc., M.B., D.Sc. Shef., F.R.S. (Prof. L.I.).
Wright, Sir Almroth E., K.B.E., C.B., M.D., B.Ch., Sc.D. Dub., B.A. Camb., F.R.S. (recogd. in Bact.) Prof. (SM.).

Pharmaceutics

Greenish, H. G., F.I.C., F.L.S., D. de l'U. Paris Prof. (28).

Pharmacology, v. also Med.

Calvert, J., C.B.E., B.A., M.D., B.Sc., F.R.C.P. (also in Med.) (B.).
Clark, A. J., M.D., B.A. Camb., D.P.H. Prof. (U.).
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Hutchison, R., M.D., C.M. Edin., F.R.C.P. (also in Med.) (L.).
Inchley, O., M.A., M.D Camb. (K.).
Laidlaw, P. P. (v. Path., Exper.) (G.).
Leyton, O. F. F., M.A., M.D., B.Ch. Camb., D.Sc., F.R.C.P. (also in Med., Clin.) (L.).
Ransom, F., M.D. Edin. Prof. (LW.).
Woolley, V. J., M.A., M.D. Camb. (T.).

Radiology

..... Prof. (M.).

Surg., v. also Dis. of Child.

Addison, O. L., M.B., B.S., F.R.C.S. (25).
Armour, D. J., C.M.G., M.B., B.A. Tor., F.R.C.S. (26).
Back, I., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Bailey, R. C., M.S., M.B., F.R.C.S. (B.).
Ball, W. G., F.R.C.S. (B.).
Ballance, Sir C. A., K.C.M.G., C.B., M.V.O., M.S., M.B., F.R.C.S. (T.).
Battle, W. H., F.R.C.S. (T.).
Bland-Sutton, Sir John, F.R.C.S. (M.).
Bromley, L., M.B., M.Ch. Camb., F.R.C.S. (G.).
Burghard, F. F., C.B., M.D., M.S., F.R.C.S. (KM.).
Carling, E. R., M.B., B.S., F.R.C.S. (W.).

Cheatle, Sir G. L., K.C.B., C.V.O., F.R.C.S. (KM.).
Choyce, C. C., C.M.G., C.B.E., B.Sc., M.D. Edin., F.R.C.S. (UM.).
Clogg, H. S., M.S., M.B., F.R.C.S. (C.).
Cope, V. Z., M.A., M.D., M.S., F.R.C.S. (SM.).*
Corner, E. M., B.Sc. Lond., M.A., M.Ch., M.B. Camb., F.R.C.S. (T., 25).*
Cunning, J., M.B., B.S. Melb., F.R.C.S. (LW.).*
Daniel, P. L., F.R.C.S. (C.).*
Davies-Colley, R., C.M.G., M.A., M.Ch. Camb., F.R.C.S. (G.).
De Santi, P. R. W., F.R.C.S. (W.).
Dunhill, T. P., C.M.G., M.D., B.S. Melb. (B.).
Eccles, W. McA., M.S., M.B., F.R.C.S. (B.).
Edwards, A. T., M.A., M.Ch. Camb., F.R.C.S. (W.).
English, Sir T. C., K.C.M.G., M.B., B.S., F.R.C.S. (SG.).
Evans, A. H., O.B.E., M.D., M.S., F.R.C.S. (W.).
Evans, W. H., M.D., B.S., B.Sc., F.R.C.S. (also in Dermatol.) (LW.).
Fagge, C. H., M.S., M.B., F.R.C.S. (G.).
Farrant, R., F.R.C.S. (W.).
Fedden, W. F., M.S., M.B., F.R.C.S. (SG.).
Fitzwilliams, D. C. L., M.D., Ch.M. Edin., F.R.C.S. (SM.).*
Frankau, C. H. S., C.B.E., M.B., B.S., F.R.C.S. (SG.).
Fripp, Sir Alfred D., K.C.V.O., C.B., M.S., M.B., F.R.C.S. (G.).
Furnivall, P., F.R.C.S. (L.).*
Gask, G. E., C.M.G., F.R.C.S. (B.).
Gray, H. T., M.A., M.Ch. Camb., F.R.C.S. (25).
Greene, W. H. C. (v. Anat.) (SM.).
Handley, W. S., M.D., M.S., F.R.C.S. (M.).
Hastings, S., M.S., M.B., F.R.C.S. (M.).*
Howard, R. J., C.B.E., M.S., M.B., F.R.C.S. (L.).*
Hughes, E. C., M.A., M.Ch. Camb., F.R.C.S. (G.).
Hutchinson, J., F.R.C.S. (L.).
Johnson, R., O.B.E., M.B., B.S., F.R.C.S. (UM.).
Kidd, F. S., B.A., M.B., B.Ch. Camb., F.R.C.S (L.).*
Lane, J. E., F.R.C.S. (SM.).
Legg, T. P., C.M.G., M.S., M.B., F.R.C.S. (KM.).*
Lett, H., C.B.E., M.B., Ch.B. Manc., F.R.C.S. (L.).*
Lindsay, E. C., B.Sc. N.Z., M.B., B.S., F.R.C.S. (L.).
Low, V. W., C.B., M.D., B.S., F.R.C.S. (SM.).*
Milne, R., M.D., M.S., F.R.C.S. (L.).*
Murray, J., M.B., B.Ch. Dub., F.R.C.S. (M.).
Nitch, C. A. R., M.B., M.S., F.R.C.S. (T.).
Openshaw, T. H., C.B., C.M.G., M.B., M.S. Durh., F.R.C.S. (L.).
Pannett, C. A., M.D., B.S., B.Sc., F.R.C.S (LW., SM.).
Pendlebury, H. S., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Power, Sir d'A., K.B.E., M.A., M.B. Ox., F.R.C.S. (B.).
Rawling, L. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Rigby, Sir H. M., K.C.V.O., M.B., M.S., F.R.C.S. (L.).*
Roberts, J. E. H., M.B., B.S., F.R.C.S. (B.).
Rowlands, R. P., O.B.E., M.B., M.S., F.R.C.S. (G.).
Sargent, P. W. G., C.M.G., M.A., M.B., B.Ch. Camb., F.R.C.S. (T.).

* Clinical.

Sherren, J., C.B.E., F.R.C.S. (L.).*
Smith, S. M., C.B., M.B., B.S., F.R.C.S. (SM.).
Souttar, H. S., C.B.E., M.A., B.M., M.Ch. Ox., F.R.C.S. (L.).
Spencer, W. G., O.B.E., M.S., M.B., F.R.C.S. (W.).
Steward, F. J., M.S., M.B., F.R.C.S. (G.).
Taylor, W. G., M.A. Aberd., M.S., B.Sc., F.R.C.S. (M.).
Thompson, A. R., M.B., Ch.M. Manc., F.R.C.S. (G.).
Trotter, W. B. L., M.D., M.S., F.R.C.S. (UM.).
Turner, P., M.S., M.B., B.Sc., F.R.C.S. (G.).*
Turner, W., M.S., M.B., F.R.C.S. (W.).
Wallace, Sir C. S., C.B., K.C.M.G., M.B., B.S., F.R.C.S. (T.).
Walton, A. J., B.Sc., M.B., M.S., F.R.C.S. (L.).
Waring, H. J., C.B.E., M.S., M.B., B.Sc., F.R.C.S. (B.).*
Warren, R., M.A., D.M., M.Ch. Ox., F.R.C.S. (L.).*
Waterhouse, Sir H. F., M.D., C.M. Edin., F.R.C.S. (C.).
Watson, Sir C. G., K.B.E., C.M.G., F.R.C.S. (B.).*
Waugh, G. E., B.A. Camb., M.D., B.S., F.R.C.S. (25).
Webb, C. H. S., M.S., M.B., F.R.C.S. (M.).
Webb-Johnson, A. E., C.B.E., M.B., Ch.B. Manc., F.R.C.S. (M.).
Williams, G. E. O., M.D., M.S., F.R.C.S. (UM.).
Wilson, H. W., M.B., M.S., F.R.C.S. (B.).

Tropical Hygiene
Simpson, Prof. (v. Hyg.) (TM.).

Trop. Med.
Hewlett, Prof. (v. Bact.) (TM.).
Low, G. C., M.A. St. And., M.D., C.M. Edin. (TM.).
Manson, Sir Patrick, G.C.M.G., M.D., C.M., LL.D. Aberd., D.Sc. Ox., LL.D. Camb., F.R.C.P., F.R.S. (TM.).
Newham, H. B. G., C.M.G., M.D., D.P.H., D.T.M. Camb. (TM.).

Trop. Surg.
Cantlie, Sir J., K.B.E., M.A., M.B., C.M. Aberd., F.R.C.S., D.P.H. (TM.).

Oriental Languages, v. also Semitic

Arabic
Arnold, Sir T. W., C.I.E., Litt.D., M.A. Camb. (O.).
Harding, H. G. (J.).
Sefi, A. (O.).

Burmese
Hough, A. L. (O.).

Chinese, Mandarin [(O.).
Chen, W., M.A. Pek., Ph.D. Mich.
Drake, S. B. (O.).
Rees, W. Hopkyn, D.D. Reader (O.).

Gujarati
Doderet, W., M.A. Camb. (O.).

Hindostani (Hindi and Urdu)
Bailey, T. G., M.A., B.D., D.Litt. Edin. Reader (O.).
Abdul Qayum Malik, B.A. All. (O.).
Palmer, T. G. F. (O.).

Japanese
Khori, T. (O.).
McGovern, W. M., Ph.D. (O.).

Malay
Blagden, C. O., M.A. Ox. Reader (O.).

Pali Lit.
Davids, Mrs. C. A. R., M.A. (O.).

* Clinical.

Persian
Ross, Sir E. D., C.I.E., Ph.D. Stras. Prof. (O.).
Wilson, C. E., B.A. (O.).

Sanskrit
Barnett, L. D., M.A., Litt.D. Manc., M.A. Camb. (O.).

Sinhalese, Tamil, and Telugu
Wickremasinghe, M. de Z., M.A. Ox. Reader (O.).

Tibetan
Thomas, F. W., M.A Camb., Ph.D. Münich Reader (O.).

GENERAL INFORMATION

[NOTE. *The University authorities desire that it should be clearly understood that they can accept no responsibility for any information concerning examns. or procedure except such as is contained in their own official Regns. These can always be obtained on application at the Univ. offices.*]

Central offices—South Kensington, S.W.7. Telegraphic address—University, Southkens, London. Telephone—Kensington 7000.

The Univ. was constituted by Royal Charter in 1836 as a body empowered to grant degrees to students of approved institutions after examination, and, until 1900, its work was confined to the examination of students. The system whereby entrance to its examns. was restricted to students of certain affiliated Colleges was abolished, except for examns. in Medicine, in 1858. In 1878 its degrees were thrown open to women, London being the first of the Univs. of Great Britain to adopt this policy.

In 1900 the Univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in Higher Education within a radius of 30 miles. The Senate is empowered to admit as *Schools of the University* institutions situated within the administrative county of London and not carried on for the private gain or profit of the owners which provide education of Univ. standard, and is required to obtain reports at prescribed intervals on the efficiency of such schools. A special form of recognition may be given to an institution within the same area founded for research or the cultivation of any special branch of science or learning, and the Lister Institute of Preventive Medicine and the School of Oriental Studies have been admitted in this category. The Senate has power also to recognize as Teachers of the Univ. any members of the teaching staff of public educational institutions within a radius of 30 miles, whether Schools of the Univ. or not. Matriculated students of Schools of the Univ. or studying under such *Recognized Teachers* are eligible under certain conditions for registration as *Internal Students*, and are allowed, after pursuing Approved Courses of Study, to enter for the "Internal" examns. of the Univ. *External Students* may pursue their studies where and how they please, and are admitted, without any conditions as to attendance at Approved Courses, to examns. for degrees in all subjects except Medicine, Mining, and Architecture. The examns. for Internal and External students are in some cases separate, in others identical, but the statutes require that "the degrees conferred on both classes of students shall represent as far as possible the same standard of knowledge and attainments."

Since the reconstitution of the Univ., its two original colleges, University Coll. in 1905 and King's Coll. in 1908, have been incorporated in it, the Senate, which is the supreme Univ. body, taking over the responsibility for their administration.

LIBRARIES. The Libraries belonging to and connected with the Univ. contain in the aggregate about half a million volumes, distributed over every branch of knowledge. The Univ. Library in the Central Building, S. Kensington, contains about 100,000 volumes and pamphlets. It provides well-equipped special collections to promote research work and also serves as a lending library from which students can borrow expensive works for home study. It includes the Goldsmiths' Library of Economic Literature (45,000 vols.), which is restricted to purposes of research and reference. The British Library of Political Science at the London School of Economics has 160,000 vols. There are, in addition, large departmental libraries in the several Colleges and various collections of books on special subjects, too numerous for mention. Access can also be obtained to the library of the British Museum, the largest in the world, with 2½ million printed books, the Record Office, and numerous other collections. Full particulars are given in *The Libraries of London: a Guide for Students* (v. *infra*—Publications).

MUSEUMS. Among the many Museums which, in addition to those belonging to the Schools and Institns. of the Univ., are accessible to students in London are the British Museum (Antiq. and Nat. Hist.); Horniman (Anthrop. and Zool.); London; Parkes (Sanitary Science); Practical Geol.; Roy. Archit. Soc.'s; Roy. Coll. of Surgeons'; Science, S. Kensington (Mech., Nav., and Struct. Engin., Phys., Maths., Chem., Physiog., Geol., and Biol.); Sir John Soane's (Art and Antiquarian); Victoria and Albert, S. Kensington (Archit. and Sculpture, etc.). LABORATORIES, v. p. 119 and the sections relating to the several colleges and schools of the Univ.

FACULTIES. Theology, Arts, Laws, Music, Medicine, Science, Engineering, Economics and Political Science (including Commerce and Industry).

Standing Committees of the Senate. The most important are—The Academic Council, the Council for External Students, the Board to Promote the Extension of Univ. Teaching, the Matricn. and the Appointments Boards, the Estabt. and Genl. Purposes, Finance, Imperial Studies, Library, and Scholarships Committees. There are 28 other Committees besides the 41 Boards of Studies.

DEGREES. B.D., D.D.; B.A., M.A., D.Lit.; LL.B., LL.D.; B.Mus., D.Mus.; M.B., B.S., M.D., M.S.; B.Sc., M.Sc., D.Sc.; B.Com., M.Com.; Ph.D. (in Faculties of Theol., Arts, Science, and Econ.).

The B.Sc. and D.Sc. are granted in the Faculties of Science (including Pure Sc., Agric., Hortic., Vet. Sc., and, for External students, Estate Management, and, for Internal students, Household and Social Science—B.Sc. only), Engineering, and Economics; the M.Sc. in Science (including Agric., Vet. Sc., and, for Internal students, Hortic.), Economics, and, for Internal students, Engineering.

ADMISSION. The Univ. holds 3 times a year in London and twice a year in certain Provincial centres a Matricn. examn. open to all persons of 16 yrs. of age and upwards. The examn. can also be held by special arrangement in any of the British Colonies or Dominions. Candidates are required to pass on one and the same occasion in 5 subjects: English, Maths., Latin or Greek or a scientific subject, 2 other subjects of which one must, if neither Latin nor Greek is chosen for 3rd subject, be a language. The General School examn. (v. p. 112), if passed in a combination required for Matricn., is equivalent to the Matricn. examn., and several other examns. are also accepted on conditions as exempting from it.

UNIVERSITY STUDENTS FROM ABROAD. The graduates of most British and of a number of Colonial, Indian, and Foreign Univs. can also claim exemption. Other students of 19 yrs. of age and upwards who present certificates of Matricn. in Colonial Univs. or Indian or foreign certifs. from educational authorities indicating an education equivalent in their own country to that required in England for the Matricn. examn. may apply for *examination under Statute* 116 with special reference to the line of study they propose to follow. This examn., which it has been the practice to hold about 5 times a year, can only be held in London. Students who do not propose to proceed to a degree are not required to pass any Univ. examn., but must submit evidence that they are sufficiently advanced in their studies.

EXTERNAL students preparing for the Bachelorship undergo Intermediate and Final examns. at intervals prescribed in the Regns., and approximating (except in Med. and Vet. Sc.) to 3 yrs. in all. Copies of all Regns. may be obtained gratis and post free from the External Registrar.

EXAMINATIONS IN THE OVERSEAS DOMINIONS. Certain of the examns. of the Univ. for External students are held not only in London and at Provincial centres within Great Britain, but also in certain of the overseas Dominions of the Empire. In India, only the examns. in the Faculty of Theol. are thus held, but the Matricn. examn. and the examns. in Theol., in Arts, in Laws, and in Economics have been held at 70 Colonial centres. In Ceylon the Univ. examns. in Science have also been held under special arrangement; in this latter case with certain modifications of the Regns., such as have made them suitable for the special needs of the Colony in question; with the result that the Ceylon Govt. now awards its scholarships upon the results of these Univ. examns.

An INTERNAL student before being allowed to enter as such for any examn. must, unless specially exempted, have attended Instruction courses in all the subjects thereof. For a first Degree in any Faculty he must have completed an Approved Course of Study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. A minimum number of hours of attendance is as a rule prescribed for each course, and a reduction is allowed in the case of an evening student who is certified by an employer to be engaged in his service for not less than 25 hours a week. The Interm. course generally extends over 1 yr. As a general rule, Honours may be taken at the Final examns. A student who proposes to take Honours as an Internal student in any Faculty other than Theol., Laws, Med., and Engin. is required to submit his proposed Course of Study for the approval of the Senate. A course of study extending over not more than 1 yr. taken in another Univ. approved for the purpose (Paris, Caen, Montpellier, Grenoble, Lille, and Madrid have been so approved) subsequently to a student's passing the Interm. may be accepted subject to regns. in lieu of a course taken in this Univ.

CONCESSIONS TO WAR STUDENTS. (1) *Matriculation.* The Senate have approved a Scheme which will remain in operation for 1 yr. from the official termination of the war. This permits candidates whose cases have been approved by the Matricn. Board either to complete a recognized examn. in which they failed in not more than 2 subjects prior to enlistment, or to take a specially modified form of the Matricn. examn. adapted to individual needs. In the latter case, an interview by the Board of Examrs. forms an essential part of the test.

(2) *Intermediate and Final Examinations.* Any candidates who have been on war service, or who have carried out approved work in connexion with the war, may apply for certain concessions at either the Intermediate or Final examn., or both, in accordance with the Special Arrangements for the Examn. of War Students. Copies of either of the above-mentioned Schemes will be forwarded on application to the Registrar.

N.B. *In the following notes regarding the several Faculties the Institutions in which the courses may be taken by Internal students are indicated by Index letters and numbers referring to the list on pp.* 80, 81 *above.*

ARTS. U., K., Ho., BW., EL., E., Wf., N., R., J., 1, 3, 4, 6, 8, 11, 16 (Pedagogy—K., BW., Tr., 14, 15, 17). In both Interm. and Final (Pass) examns. 2 langs. must be taken, including either Latin with Rom. Hist., or Greek with Greek Hist. External students may take Honours papers in certain subjects in the Interm. examn. The Honours subjects for the Final examn. are Archæol., Archit., Chinese, Classics, Hebrew and Aramaic (including Syriac), Hist., Geog., Maths., Philos., Psych., Engl., French, Ger., Ital., Russ., Span.; also Celtic for External students, and for Internal students, Greek, Latin, Dutch, Classical Sansk. and Pali, Arabic, Persian, Sociology.

The M.A. is conferred in Archæol., Class., Hist., Maths., Mediæval and Mod. Langs., Oriental Langs., Philos., Educn., and, for Internal students only, in Comp. Philol. and Psychol. Internal students are required (except in Maths.) to submit a thesis. In some cases candidates must have taken Honours at the B.A. examn. External students may take the M.A. examn. 2 yrs. after graduation in Arts. For them a thesis is optional, except in Educn. Candidates may only take 1 branch or section at a time. In most there is a *viva-voce* examn.

The D.Lit. is open to M.A.'s and Ph.D.'s only (except as regards students excused under Statutes 113 and 129—v. p. 109), and is conferred for original work.

Diplomas. Teacher's, 1 yr. course for graduates and others similarly qualified; Fine Art (3 yrs.); History (4 yrs. part-time or 1 yr. full-time); History of Art (4 yrs. part-time); Journalism (2 yrs.); Literature (4 yrs. part-time or 1 yr. full-time); Town Planning and Civic Archit. or Civic Engin. (2 evenings a week for 2 terms or 1 day a week for 3 terms); Academic Dip. in Geog. (180 hours); External Dip. in Geog.; Sociol., etc. (v. *infra*, Econ.); Librarianship (2 yrs. for day students, 3-5 yrs. for evening students).

SCIENCE.* U., K., Im., Ho., BW., EL., E., Wf., B., T., G., 1, 2, 3, 4, 5, 8, 10, 11, 12, 13, 28 (Agriculture—Ag.; Vet. Sc.—9). For the Interm. examn. Pure Maths. or Applied Maths. or Phys. must be taken with 3 other subjects. External students may take Honours papers in certain subjects. For the Final (Pass) examn. any 3 of the following may be selected: Pure Maths., App. Maths., Astron., Physics, Chem., Geol., Bot., Zool., Physiol., Psych., Anthrop., Milit. Sc., Logic and Method (Ext. students), Statistics (Int. students). An Honours student selects 1 principal subject and (except in the case of a candidate for Honours in Human Anatomy and Morphology) 1 subsidiary subject. For the Degree in Agric. the Interm. examn. includes Chem., Bot., Zool., and 1 selected subject; the Final—Agric., Agric. Chem., Agric. Bot., and 2 selected. Internal students may take the B.Sc. "by Research" (v. p. 110). For the Degree in Hortic. the Interm. subjects are Chem., Bot., Zool., and Physics or Geol.; before proceeding to the Final course (Bot., Chem. and Entom.) a student must have passed the Prelim. examn.

* v. N.B. *above*, p. 104.

for the Nat. Dipl. in Hortic. or an approved equivalent. For the Degree in Vet. Sc. there are 4 examns. to be taken in their proper order: Prelim. (Inorg. Chem. and Phys.), Interm. Pt. I. (Org. and Applied Chem., Genl. Biol., and Vet. Anat.), Pt. II. (Vet. Physiol.), and Final (Vet. Pathol. and Vet. Hyg.). For the M.Sc. a thesis is required except in Maths. There is no Doctorate in Agric. or in Vet. Sc., Bachelors of Science (Agric. or Vet. Sc.) being held to be eligible for the ordinary D.Sc.

Diplomas. Household and Social Science (3 yrs. course).

THEOLOGY.* N., H., R., KT., J. The Interm. course is in Bibl. Langs., Greek, Latin, Psych., and Philos.; the Final in Old Test., New Test., Bibl. and Hist. Theol., Church Hist., Philos. Introdn. to Theol., and a selected subject. The Honours examn. is distinct from the Pass, and may be taken 1 yr. after graduation in Div.; the subjects are Hebrew and Aramaic, including Syriac, Greek N.T. and Apocrypha, Church Hist., Bibl. and Hist. Theol., Study of Religion. Candidates for the D.D. degree must have taken Honours in Theol. in this Univ.

LAWS.* U., K., and E. (under a joint scheme). The subjects of the Interm. course are Hist. of Rom. Law, Engl. Const. Law and its Hist., and Jurispr. Candidates for the LL.D. degree must have taken Honours at the LL.B. examn. or subsequently unless specially exempted.

MEDICINE. The course extends normally over 5½ yrs. In the 1st yr. courses in Inorg. Chem., Phys., and Genl. Biol. in preparation for the 1st examn. for Med. degrees are taken. The 2nd and 3rd yrs. are devoted to Org. and Applied Chem. (the only subject at Pt. I. of the 2nd examn., taken not less than 6 mos. after passing the 1st), Hum. Anat. and Embryol., Physiol., Pharmacol., including Pharmacy and Mat. Med. Pt. II. of the 2nd examn. is normally taken about 2½ yrs. after Matricn. In the Final course for the M.B., B.S. degrees the subjects are divided into 2 groups as follows: Group I.—Med., Path., For. Med. and Hyg.; Group II.—Surg., and Midw. and Dis. of Women. The groups may be taken separately or together, but degrees are not conferred until candidates have passed in both groups.

The M.D. may be taken in any of the following: Med., Path., Ment. Dis., Midw. and Dis. of Women, State Med., Trop. Med.

The M.S. may be taken in Surg., Dent. Surg., Ophth., or Laryn., Ot., and Rhin.

For the M.D. or M.S. a thesis or published work may be submitted.

Diploma in Psychological Medicine.

MUSIC.* 2, 19, 20, 21, 22. The subjects for the Interm. examn. are Harmony, Counterpoint, and Hist. of Mus. For the B.Mus. the subjects of examn. are Harmony; Counterpoint, Fugue, and Canon; Free Composition; Hist. of Music; and Musical Analysis. Every candidate for the B.Mus. must submit a musical exercise. For the D.Mus. there is a written examn., and a musical exercise is also required.

ENGINEERING.* U., K., Im., BW., E.L., 2, 5, 7, 8, 11, 12, 13. The same Interm. examn. is taken by all students whether intending to graduate in Engin., Mining, or Metall., the subjects being: Pure Maths. and Applied Maths., Heat, Elec. and Magn., Engin. Drawing and Design, and either Sound and Optics or Chem. or Geol. In the Final examn. in Engin. not less than 5 subjects are taken, a wide choice being allowed; in *Mining* 6, of which Geol.

* v. N.B. *above*, p. 104.

and Mineral., Elec. Tech., Mining, Mine Surveying and Assaying are compulsory; in *Metall.* 5, of which Mineral., Elec. Tech., Metall., and Assaying are compulsory. For an Honours degree in Engin., Mining, or Metall. at least 1 extra subject must be taken at the Final examn. and a higher standard reached in all the subjects taken.

ECONOMICS.* U., K., E., 3, 4. The subjects for the Interm. examn. are Econ., British Constitn., either Maths. or Logic and Scientific Method, Geog. For the Final (Pass)—Econ., including Statistics, Pub. Administrn., either Hist. or Accounting and Business Organizn., and one of the following: Accounting, Industr. and Comml. Law, Const. Law and Hist., Pub. Internat. Law, Geog. Honours students take Econ., either Hist. or Accounting and Business Organizn., Pub. Administrn., a selected subject. At both the Pass and Honours examns. passages are set from French and German works for translation and comment.

For the B.Com. the Interm. examn. is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., an approved Modern Lang. Pt. II.—Banking, Currency, Trade (including Transport) and Finance, Accounting as applied to Traders and Trading Companies, or World History with special reference to nineteenth century; 1 selected subject. The B.Com. examn. is in: the Present Organization of Industry, Banking, Trade, and Transport; Modern Econ., Development of the Empire, and the more important Foreign countries; Elements of Comml. Law; Statistical Method; 1 selected group of subjects.

Diplomas. Academic Dip. in Sociology and Social Administration (2 yrs. course, at least 150 hours in each); Dip. in Economics and Social Sc. (4 yrs. part-time or shorter full-time course), *either* E. Hist. and Theory, Soc. and Pol. Sc., *or* conditions of Soc. and Indust. well-being and of Health—Dip. for Civic workers.

MILITARY EDUCATION. London is one of the Univs. which have established approved courses of instruction entitling them to nominate candidates for commissions in the Regular Army. The selection of qualified students is made by a Nomination Board consisting of the members of the Milit. Educn. Committee together with one or more Milit. members appointed by the War Office, who have the right of veto on any selection. An Internal Degree in one of the Faculties other than Theol., Med., and Music is one of the necessary qualifications. Since 1912 Military Science has been an optional subject for the Interm. and Final (Pass) B.A. and B.Sc. examns. The Officers' Training Corps Contingent supplied 4200 officers for the war, of whom 650 are known to have fallen.

POST-GRADUATE STUDY AND RESEARCH. In most of the Colleges and Schools of the Univ. special arrangements are made for Research students, and the facilities offered are not restricted to Internal graduates of the Univ. Under Statute 129 External graduates, and under Statute 113 graduates of, and persons who have passed the degree examns. of, other approved Univs. are allowed, under certain conditions, to enter as Internal students for the degree of Doctor in the several Faculties (but not in Medicine and Surgery—Stat. 113) and for the degrees of M.A. and M.Sc. Application for registration as a candidate for a higher degree may be submitted with evidence of graduation, etc., through the authorities of the College, School, or Institution at which the applicant proposes to study, and supported by their certificate of his

* v. N.B. *above* p. 104

fitness to undertake a course of study or research with a view to the proposed degree, and that they are willing to supervise his work. An Overseas student may himself submit an application on the prescribed form, and the Univ. will, if so requested, advise as to the selection of the College, School, or Institution at which, and Teacher under whom, he should study. Application for such advice should be addressed to the Academic Registrar. Overseas students should apply for registration before coming to London, and their applications should reach the Univ. by May 1, or, if from Australia or New Zealand, March 1, to enable them, should their applications be successful, to enter upon their course of study in Oct., *i.e.* at the beginning of the Session. Students whose applications are approved are required to pursue a course extending over at least 2 yrs. (v. *infra*—Publications).

A candidate for the Ph.D. degree must have previously graduated in the Univ. in the faculty of Theology, Arts, Science, or Economics, or have been registered as a candidate for the degree under the terms of Statutes 113 or 129. An Internal student is further required to pursue a course of study of not less than two years' full-time, or four years' part-time, training in research and research methods.

The B.Sc. degree, in the Faculties of Science and Econ., may also be taken "by Research" by Internal students under Statute 112. Candidates must have attained the age of 19 and must have passed the Interm. examn. The research must extend over at least 2 yrs.

STUDENTSHIPS AND SCHOLARSHIPS. Studentships are awarded by the Senate in aid of advanced work or research. These include one of £50 p.a. for 1 or 2 yrs., open to students of Univ. Coll. in Maths.; one of £100 in Archæology; £120 and £50 in Physiol.; £100 in Arts; £100 in Econ.; £200 for the man or woman who, being resident in London and a graduate of the Univ., has done most in the preceding 5 yrs. to advance Medical Art or Science; £200 for a graduate of a British Univ. for the promotion of post-graduate research. The Gilchrist Trustees provide funds for two Studentships, viz. one of £100 for a woman graduate preparing for a profession; and one in Mod. Langs., £80, open to a B.A. who took Honours in French or German, for a course of study abroad with a view to the profession of teaching. Three Scholarships of £50 each for 1 yr. are awarded annually for proficiency in Oriental Langs. The Scholarships Pamphlet obtainable post free on application to the Univ. gives details of these and others.

An APPOINTMENTS BOARD (Secy.—H. J. Crawford, B.A.) co-ordinates and supplements work done by the Schools and Institns. of the Univ. During the year 1918–1919, 150 appointments were secured for registered graduates. A pamphlet with full information may be obtained from the Secy., 46 Russell Sq., W.C.1.

RESIDENCE. Hostels recognized by the Senate: Univ. Hall of Residence, 10 and 11 Carlyle Square, Chelsea; Univ. Coll. Hall, Ealing, for 40 men students (fees for residence, 30s. to £3 a week); College Hall, Byng Place, Gordon Square, W.C., for women students; King's Coll. Theological Hostel, Vincent Square; The Platanes, Denmark Hill, S.E., for King's Coll. and its Med. School. Residence is also provided at or in connexion with the S.E. Agric. Coll., Wye, Bart's, Guy's and Middlesex Hospl. Med. Schools, the Theological Colleges at Hampstead and Highbury, and the Women's Colleges.

UNIVERSITY EXTENSION DEPARTMENT. The work of the *Board to Promote the Extension of Univ. Teaching* falls under the following heads: (*a*) Univ. Extension Lectures and Tutorial Classes for Working-people; (*b*) Holiday

Courses for Foreigners; (*c*) Inspection and Examn. of Schools; (*d*) Examn. for the Certif. in Religious Knowledge; (*e*) Examns. for the Certifs. in Danish, English (for foreigners), French, German, Italian, Norwegian, Russian, Spanish, and Swedish; (*f*) Examns. for Diplomas in History, Literature, Economics and Social Science, History of Art; (*g*) Examn. for Diploma in Psychological Medicine.

(*a*) *Univ. Extension Lectures* have been carried on by the Board since 1902, and, prior to that, since 1876, by the London Society for the Extension of Univ. Teaching. By agreement with the Univs. of Oxford and Cambridge the work is restricted to the Metropolitan area. Courses are held, at about 60 centres, on Hist., Lit., Art, Econ. and Social Sc., Philos., Psychology, and Nat. Sc. A class is held in connexion with each lecture, and students are encouraged to do regular paper-work for the lectr. An examn. for certifs. may be held at the end of each Sessional (24 or 25 lectures) or Terminal (10 or 12 lectures) course. A few short courses (5 lectures) of a *pioneer* or illustrative character are arranged; in connexion with these there is no examn. Continuous study over several years is encouraged by the Vice-Chancellor's Certif. of Continuous Study (awarded to students who obtain 4 Sessional Certifs. in subjects chosen from certain groups) and by the *Diplomas in the Humanities* (Hist., Lit., Econ. and Social Science, Hist. of Art), awarded, under the Seal of the Univ., to students who carry on an approved co-ordinated course of study covering 4 yrs., and pass an examn. on the work of each Session, and a final advanced examn. on the whole course.

The *Tutorial Classes for Working-people* are under the immediate direction of a Joint Committee of 7 members nominated by the Board and 7 nominated by the Workers' Educational Association. The classes extend over 3 consecutive years, and membership is limited to not more than 32 students, who undertake to attend regularly and to do regular paper-work for the Tutor. Certifs. are not awarded. There were 31 classes in 1919–1920.

(*b*) A *Holiday Course* for Foreigners is held annually in London during four weeks from the middle of July. Students may present themselves for examn. at the end of the course. Special stress is laid upon Phonetic teaching. The course is designed to widen the student's knowledge not only of the Engl. Lang., but of English customs, institns., and art, by means of lectures, classes, a choral society, excursions, etc. The total number of students admitted to the course is limited to about 260, and the number in each class to 8. During the 13 years 1904–1914 and 1919–1920 the course was attended by 3107 students from 27 countries.

(*c*) *Inspection and Examination of Schools.* A close relationship between examination and inspection has been carefully and continuously developed by the Univ. Extension Board. The County Councils of Surrey and Middlesex have placed their Secondary Schools to the number of 50 under the Univ. for regular inspection and for the holding of the School examns., the local authority in each case making a special financial arrangement with the Univ. The Board of Educn. and the Univ. inspect alternately and exchange Reports.

Inspection may include either a general inspection of the whole school or a special inspection of certain subjects or groups of subjects. It may be so combined with the Certificate examns. that these form an integral part of it. It may also include an examn. carried on by the Inspectors and the Staff of the school in co-operation. This system of combined inspection and examn. is known as Examinational Inspection, and is capable of considerable variation to meet the requirements of any particular school.

The *Examinations for Certificates* are held only in Schools inspected by the Univ. or under other approved inspection; the course of study in the school

must also be approved. The examns. are of 3 grades: I. Higher, II. General, and III. Junior, for I. the (*a*) Higher School, (*b*) External Intermediate (Arts or Science) Certif.; II. the (*a*) School, (*b*) Matricn., or (*c*) School Commercial Certif.; and III. the Junior School Certif., respectively. Certifs. I. (*a*), II. (*a*), and II. (*c*) are not awarded until the pupil leaves school.

The *Higher and General School Examinations* are recognized by the Board of Education as "Second" and "First" examns. (v. p. 3) respectively, and the Certifs. I. (*a*) and II. (*a*) awarded to candidates attending schools recognized by it as efficient Secondary Schools are attested by it. A candidate who takes the *Higher* with a view to qualifying for the External Intermediate Arts or Science Certif. is required to offer for examn. the syllabuses of the Ext. Interm. examns. The combination of subjects that may be taken at the General School examn. offers greater variety than is the case in the Matricn. examn., and a pupil who reaches the necessary standard at one and the same examn. in a combination required for Matricn. is registered as a Matriculated student of the Univ. For Certif. II. (*c*) the combination of subjects required differs from that required for II. (*a*), and the subjects are treated from the commercial standpoint. The Senate have established a Panel of Advisors, consisting of a number of the leading authorities on Comml. subjects, to advise them in matters of policy and principle in connexion with the Scheme.

The *Junior School Examination* is intended for pupils about the age of 15. The examn. papers are set entirely upon the Schools' own approved syllabuses.

In the case of each of the School examns. an Inspector visits the school for the purpose of conducting an oral examn. in such Mod. Langs. as are taken. Practical examns. in Science are optional, except in the case of grade I. and in Genl. Elem. Science at grade II., in which they form an essential part of the examn.

(*d*) The *Examination for the Certificate in Religious Knowledge*, instituted in 1909, is held once a year in June. It may be held at any of the Provincial centres at which the June Matricn. examn. is appointed to be held, as well as in London.

(*e*) *Examinations for the Certificates in French and in German* (instituted in 1913) and in *Italian, Russian, and Spanish* (instituted in 1919) are held in July and Aug.; for English (for foreigners; instituted in 1920) in Aug. or as may be arranged. They are intended primarily for teachers who are not specialists in, but who require a Certif. testifying to their practical working knowledge of, the language, both spoken and written.

Examns. for Certifs. in *Danish, Norwegian, and Swedish* have been established and will be held for the first time in 1921.

(*f*) The *Examinations for the Diplomas in History*; *Literature*—English Lang. and Lit. or General Lit.; *Economics and Social Science*—either Economic History and Theory, Social and Political Science, or Conditions of Social and Industrial Well-being and Conditions of Health (Dip. for Civic Workers); *History of Art*—are held once a year in Oct. for students who have followed a recognized course of study for 4 yrs. as part-time students or for a shorter period as full-time students.

(*g*) The *Examn. for the Diploma in Psychological Medicine* is held twice a year, in March and Apr. and in Oct. and Nov., and is open to candidates whose names are in the Medical Register. There are two varieties of this Dip., for those desiring to specialize in Mental Diseases and in Mental Deficiency respectively.

[*Further information and copies of the Regns. may be obtained from the University Extension Registrar, University of London, South Kensington, S.W.7.*]

PUBLICATIONS. The following are obtainable from the Univ. of Lond. Press, Ltd., St. Paul's House, Warwick Sq., London, E.C.4:

The Calendar, pubd. in Sept., price 6s. net, postage 6d. *Regns. and Courses for Internal Students* (the "Red Book"), pubd. in Sept., 2s. 6d., postage 1s. The Courses are pubd. separately for the several Faculties, 3d. each net. *Regns. for External Students* (the "Blue Book"), pubd. in Sept., 1s. 6d. net, postage 7½d.; *London Univ. Gazette*, pubd. at average intervals of 4 weeks; the Examn. Lists are pubd. in Supplts.; annual subs., including postage, 5s.; single no., 8d. *Matriculation Pamphlet*, issued after each Examn., containing the Regns. and Examn. Papers, 1s. 8d. post free. *Examn. Papers*, published as soon as possible after the several Examns.; prices vary from 4d. to 2s. 10d. *Libraries of London*: a Guide to Students, by R. A. Rye, Goldsmiths' Librarian, 6d., postage 3½d.; 2nd edition, 2s. 6d., postage 6d. *Historical Record of the Univ.*, pubd. in 1912; contains (*a*) a Hist. of the Univ.; (*b*) the Univ. Charters, and Acts of Parliament referring to the Univ.; (*c*) former Fellows; (*d*) Donations and Trusts; (*e*) Graduates; (*f*) persons to whom prizes, etc., have been awarded, and other information of historical interest; 5s. net.; postage 6½d.

Regulations. The following may be obtained on application to the Univ.: Regns. for Matricn.; Regns. for Int. and for Ext. Students (pubd. separately) for Degrees in Arts, Science, Agric., etc.; for the various Diplomas and Certificates in special subjects; Scholarships pamphlet. Applications for any of these should be addressed to the Principal.

O.T.C. Handbook obtainable from the Secy., 46 Russell Sq., W.C.1.

Handbook for Research and Postgraduate Students, especially those from Overseas Univs.; and *Regns. for Admission of Students from other Univs. as Candidates for Higher Degrees (except in Med. and Surg.)*, obtainable from the Academic Registrar.

THE YEAR 1919–20

BENEFACTIONS. Nearly £135,000 subscribed by Banking and Shipping Companies, and other commercial houses of London, for Degrees in Commerce; Sir Ernest Cassel Educational Trust, £150,000 for Chairs, Readerships, and Lectureships, £3000 for 5 years for additional instruction in Mod. Langs., and £1000 for 5 years for Travelling Schols., for Degrees in Commerce; Rockefeller Foundation, £370,000 for Department of Anatomy, U.C., and £835,000 new buildings and Clinical Teaching at U.C.H.; L.C.C., £6000, bldgs. for Dept. of Engineering, K.C.; T. S. Hughes Bequest, £3000 for Medical Research; Rhodes Trustees, £150 a year for 3 years for part-time Chair of Const. Law; Carnegie U.K. Trust., £1500 for 5 years, School of Librarianship, U.C.; Lord Cowdray, £10,000, Engineering Buildings, U.C.; Mrs. Rowe, £1000 Research Studentship in Zoology, K.C.; Walter Smith, £167, Prize in Civil Engineering, K.C.; P. J. Calvocoressi, £105, and A. I. Panas, £25 for Koraes Chair of Modern Greek, K.C.; Prof. G. Young, £50, Travelling Bursary in Portuguese, K.C.; Govt. of Czecho-Slovakia, £200 a year for Lectr. in Czecho-Slovak Lang. and Lit., K.C.

NEW CHAIRS. Sir E. Cassel's (1) Acctcy. and Business Methods, (2) Banking and Currency, and (3) Comml. and Indust. Law, in London Sch. of Econs.; Goldsmiths' Company's, Bacteriology, London Hospl. Med. Coll.; Botany, Bedford College; Chem., Guy's Hospl. Med. Sch.; Rhodes, Imperial History, King's Coll.; Maths., Royal Holloway Coll.; Medicine (2), St. Bart.'s and

S. Thos. Hospl. Med. Schools; Pathology, Expl. Path., Physiology, Radiology. Physics (Joel), Middx. Hospl. Med. Sch.; Physiology (2), St. Mary's Hospl. Med. Sch. and King's Coll. for Women, Household and Soc. Sc. Dept.

READERSHIPS. Chinese and Hindustani, Sch. of Oriental Studies; Sir E. Cassel (3) in Commerce, Lond. Sch. of Econs.; Dutch, Univ. and Bedford Colls.; Engl. Lang. and Lit., King's Coll.; Engl. Lit., Geol., German, Bedford Coll.; Pharmacology, Guy's Hospl. Med. Sch.; Physiol. Chem., Univ. Coll.

OTHER DEVELOPMENTS. B Com. degree; Ph.D. degree in Faculties of Theology, Arts, Science, and Economics; B.A. Honours degrees in Geog. and Sociol.; M.A. degree in Comp. Philol.; M.S. degrees in Ophth., and in Rhin., Ot., and Laryngology; B.Sc. degree in Household and Social Science for Internal students; Diplomas for Journalism, in Librarianship, in Geography for External students, and in Psychological Medicine; Univ. Extension Certifs. in Danish, Norwegian, and Swedish; Certif. of Proficiency in English for Foreign Students.

NUMBER OF STUDENTS (1918 to 1920) who appeared for examn. Matricn. —8599, 11,988, 14,743; Prelim. and Interm.—2695, 4384, 5810; First Degrees—710, 987, 1622; Higher Degrees—118, 159, 217. Internal students at the end of the year 1919–20: 6950.

DEGREES CONFERRED (1918 to 1920). Total—671, 894, 1720, including women, 356, 327, 369; B.A. Internal—191, 152, 203, B.A. External—105, 148, 140; B.Sc. Int.—83, 120, 211, Ext.—54, 98, 149; B.Sc. (Agr. or Hort.)—2, 6, 13; B.Sc. (Eng.)—36, 60, 184; B.Sc. (Min. and Met.)—2, 3, 15; B.Sc. (Econ.)—20, 36, 34; B.Mus.—0, 2, 2; M.B., B.S.—64, 102, 190; LL.B.—20, 35, 30; B.D.—16, 20, 22; M.A.—22, 25, 40; M.Sc. or M.Sc. (Eng.)—20, 33, 39; D.Lit.—3, 3, 7; D.Sc., D.Sc. (Eng.), M.Sc. (Econ.), or D.Sc. (Econ.)—19, 18, 20; D.D. or LL.D.—5, 3, 2; M.D. or M.S.—9, 30, 50.

UNIVERSITY OF LONDON, UNIVERSITY COLLEGE

CHAIRMAN OF THE COLLEGE COMMITTEE—Rt. Hon. LORD REAY, K.T., G.C.S.I., G.C.I.E., LL.D., D.Lit., Litt.D., F B.A.

VICE-CHAIRMAN—J. BOURNE BENSON, B.A., LL.D.

TREASURERS—H. KEENE; F. V. SCHUSTER, B.A.

PROVOST—SIR GREGORY FOSTER, B.A., Ph.D.

SECRETARY—W. W. SETON, M.A., D.Lit., F.S.A.

TUTOR TO WOMEN STUDENTS—WINIFRED SMITH, B.Sc.

LIBRARIAN—R. W. CHAMBERS, M.A., D.Lit.

Address—Gower St., W.C.1. Telegrams—University College, London.
Telephone—734 Museum.

Founded in 1826 and opened Oct. 1, 1828, under the name of "The University of London," the College was incorporated as "University College, London," by Royal Charter in 1836. On Jan. 1, 1907, it was incorporated in the University of London. It has 95 Appointed and Recognized Teachers (v. p. 82), and, in all, 41 Profs. and 150 other Teachers.

LIBRARIES. Science, including Fownes and Graham Chemical, Sharpey and Grant Biological, and Geologists' Assocn.'s collections, and the British Assocn.'s periodicals; Arts—Yates Archæol., Edwards (Egypt), Mocatta (Jewish Hist. and Antiq.), Romance Philol. and Lit., Oriental, Philos. and Psych. and other collections, including Barlow Dante, Strong (Oriental), and Leighton (Classics and Philos.) libraries; General College library, including the Whitley Stokes (Celtic), Blackburn and Quain (Law), Field Fine Art, Ricardo Pol. Econ., Graves Math., Joseph Hume's Parliamentary, Carnegie (American History and Institns), and the Ward (London) collections.

MUSEUMS. Anat., Bot., Chem., Egypt., Engin., Geol., and Mineral., Mat. Med., Math. and Philos. Apparatus, Zool. FACILITIES FOR RESEARCH in all Depts. and special Research Laboratories in some. Two Astron. OBSERVATORIES.

COURSES. Arts, Laws, Science, Engineering, Medical Prelim. and Intermediate, Hygiene. Open to students of both sexes. The Arts Faculty includes Slade School of Fine Art, School of Librarianship, School of Journalism, and Bartlett School of Archit. A *Diploma* in Engin. is given after a 3 yrs. course, and *Certificates* in Engin. (2 yrs.) and Archit. (3 yrs.).

FEES. Composition for 3 sessions' course in Arts—97 to 105 gs., except Archit., 168 gs.; B.Sc.—134 to 140 gs.; Engin.—168 gs.; Econ.—21 gs. per session; Med. for 1st examn.—35, 2nd—80 gs.; Laws—18 gs. per session; Fine Art—28 gs. per session; for Higher Civil Service—60 gs.

SCHOLARSHIPS, ETC. Annual value, £2300.

RESIDENCE. A Hall for 52 men at Ealing, £2 to £3 a week. One for women in Gordon Sq., W.C.

PUBLICATIONS. *Calendar* (Oct.), 4s.; *Annual Report; Union Society's Magazine; Drapers' Co. Research Memoirs and Eugenics Lab. Memoirs; Prospectus* of post-graduate courses and arrangements for research.

THE YEAR 1919–20

BENEFACTIONS. The Drapers' Company, £500 p.a. (1920) for Biometric Laboratory; Chadwick Trustees, £250 for Sanitary Science; Rhodes Trustees, £150 towards Chair of Const. Law; Rockefeller Foundation, £190,000 towards new building for Dept. of Anatomy, £180,000 for endowment of Anat. and Physiol. teaching; Ellen Richards Committee of U.S.A., $1000 to supplement Prize in Botanical Research; Prof. Tonks, £100 for teaching Decoration in Slade School; Surrey County Council, £50; Misc., £315 : 12 : 2.

SPECIAL EVENTS. *Oct.* 1919: Opening of School of Librarianship by Sir F. G. Kenyon; *March* 1920: Inspection of New Chem. Labs. by H.R.H. Prince Arthur of Connaught (President of the Equipment and Endowment Fund Committee); Visit of Armenian Archimandrite, the President of the Armenian Parliament, and the Armenian Bishop in London; *June*: Opening of new building for the Dept. of Applied Statistics (provided by gift of Sir H. Bartlett) by Rt. Hon. C. Addison, M.P.; *July*: Installation of Collection of Books on American History and Institutions, presented by Carnegie Endowment for Internat. Peace, by the American Ambassador; Visit of Anglo-American Conference of Teachers of English.

NEW DEVELOPMENTS. Schools of Librarianship and Journalism established. Readerships in Dutch and Geometry. Lectureships in Indian Law (in co-operation with the School of Oriental Studies), and Hist. of Med.

NUMBER OF STUDENTS, 1917–18 to 1919–20. Total—1071, 1848, 2833; Arts—396, 716, 1055; Science—87, 165, 264; Laws—11, 18, 36; Engineering—34, 98, 133; Medical Science—104, 194, 281; Post-graduate—170, 253, 388; Evening—202, 260, 389; Vacation—68, 144, 287.

DEGREES OBTAINED. Bachelors—60; Masters—15; Doctors—5.

RETIREMENTS. Sir J. Macdonell, Prof. Comp. Law; E. G. Gardner, Reader, Italian; E. Beatrice Giglioli, Asst.; H. C. Bradshaw, Asst., Archit.; Ll. Wynn Jones, Asst., Psychol.; Mary Seegar, Asst.; Margaret Moul, Sec., Galton Lab.; B. B. Baker, Asst., Maths.; L. H. Clark, Asst., Physics; W. B. Tuck, Chem.; J. W. C. Gunn, Asst., Pharm.; J. G. Stewart, Lectr., Engin.

UNIVERSITY OF LONDON, KING'S COLLEGE

CHAIRMAN OF THE DELEGACY—VISCOUNT HAMBLEDEN.

VICE-CHAIRMAN AND TREASURER—Hon. R. C. PARSONS, M.A.

PRINCIPAL—ERNEST BARKER, M.A.

SECRETARY—S. T. SHOVELTON, M.A.

LIBRARIAN—F. W. WALTON, M.A.

Address—Strand, W.C.2. Telephone—207 Gerrard.

Founded by Royal Charter in 1829 for " instruction in the various branches of Literature and Science and the doctrines and duties of Christianity," the College consisted at first of a School and Departments of General Literature, Science, and Medicine, to which were added successively, Engineering, Theological, and Oriental Depts. The Hospital was built in 1839; the Evening Classes were started in 1856, and a Women's Dept. in 1881. In 1910 the College School became a separate Corporation, the Hospl. and Advanced Med. School were made independent, the other Depts. (except the Theological) doing work of University standard were incorporated in the Univ. of London, while the Council remained the governing body of the Theol. Dept., which became a School of the Univ. The College has 71 Appointed and Recognized Teachers (v. p. 82).

LIBRARY, 30,000 vols., including the Marsden (Philol. and Oriental), Skeat and Furnivall (English), Laughton (Naval and General Hist.), Slavonic, and Byzantine and Modern Greek collections.

LABORATORIES AND MUSEUMS. Anat. (Hughes Collection), Comp. Anat., Bact., Biol., Bot., Chem., Engin., Geol. and Mineral., Mat. Med., Metall., Pharmacol., Phys., Physiol., Psych., Pub. Health, Zool.

DEGREE COURSES in Arts, Science, Laws, Engineering. Prelim. and Interm. courses in Medicine and Pub. Health.

College Diploma course in Engineering, ordinarily 3 yrs. The *Associateship*, open to men and women graduates who have attended a prescribed course in Divinity.

ADVANCED STUDY. Special facilities in Bibliography, History (especially Mediæval, Colonial, Naval, Eastern Europe, and Ancient), Slavonic, Spanish, Portuguese, Modern Greek, Bacteriology and Pub. Health, and several other Depts. of Science.

FEES. Entrance, £6; Tuition per Session: Arts, 30 gs.; Science, 42 gs.; Med., 35 gs.; Laws, 18 gs.; Engin., 54 gs.

SCHOLARSHIPS FOR GRADUATES. In English 3, aggregate value £145; Science 5, ag. value £73; Med. 3, ag. value £60; Engin. 2, ag. value £100.

RESIDENCE. Two hostels for men (one Theol.).

PUBLICATIONS. *Calendar*, 4s. 6d. post free.

THE YEAR 1919–20

SPECIAL DEVELOPMENTS. £2053 Endowment for Spanish—2 Lectrs. appointed; £230 for Modern Greek, Prof. and Lectr.; £8425 for Portuguese, 2 Lectrs.; £25 for Russian.

NUMBER OF STUDENTS (1917–18 to 1919–20). Full-time, preparing for Degrees and Diplomas—115, 422, 474. Evening, preparing for B.A. and LL.B. —63, 104, 202; occasional—509, 620, 358. Post-graduate—159, 260, 159. Gilbart Lectures on Banking—592, 853, 1040. L.C.C. Teachers—190, 147, 102.

NUMBER OF DEGREES OBTAINED (1919–20). B.A.—26; LL.B.—2; B.Sc. —11; B.Sc. (Eng.)—17; Higher Degrees—16.

DEATHS AND RESIGNATIONS. R. M. Burrows, Principal, d.; Prof. A. V. Salmon, d.; Profs. A. W. Crossley, W. B. Bottomley, J. Fitzm. Kelly, r.; J. K. Fotheringham, Reader, r.; O. Rosenheim, Asst. Prof., r.

UNIVERSITY OF LONDON, KING'S COLLEGE FOR WOMEN

Address—Strand, W.C.2.
Tutor to Women Students—Hon. Eleanor M. Plumer.

Founded as the Women's Dept. of King's Coll. in 1881, and incorporated in the Univ. in 1910. Transferred in 1915 from Kensington Sq. to King's Coll., Strand. Appointed and Recognized Teachers, 22 (v. p. 82); others, 28. Students in Arts and Science take all their work at King's Coll., Strand. A *Divinity Department* prepares for the B.D. and the Univ. Certif. in Religious Knowledge. A *Department of Home Science and Economics* prepares for a College Certif. (3 yrs. course) and Diploma (post-graduate). *Fees*: Arts, 30 gs. p.a.; Science, 42 gs. p.a. *Entrance age*, minimum, 16.

Number of Students (1917–18 to 1919–20). Full-time undergraduates— 63, 74, 135; Part-time—8, 13, 9.

HOUSEHOLD AND SOCIAL SCIENCE DEPARTMENT, KING'S COLLEGE FOR WOMEN, Campden Hill, W.8.

Dean—Miss Lane-Claypon, M.D., D.Sc. Originally lodged in Kensington Sq., and moved to Campden Hill in 1915. Appointed and Recognized Teachers —5 (v. p. 82) in Biol., Chem., Ec., Hyg., Physics; others—12. Joint courses held with Ratan Tata Dept. of Soc. Sc. and Adm. Recognized by Board of Educn. for training for Health Visitors. *Fees*: 30 gs. per Session for all courses. Single courses from 1 g. a term. *Entrance age*, 18; matriculated students admitted as non-residents at 17. *Residence*: Q. Mary's Hostel, primarily for Diploma Course students. *Fees*—78 gs. per session; other hostels, 70 gs. *Number of Students*—160.

INCORPORATED INSTITUTIONS AND UNIVERSITY DEPARTMENTS

GOLDSMITHS' COLLEGE, v. p. 134.

THE BROWN ANIMAL SANATORY INSTITUTION, 149 Wandsworth Rd., Vauxhall, S.W. Supt.—F. W. Twort, M.R.C.S., L.R.C.P. Established in 1871 for "investigating, studying, and, without charge beyond immediate expenses, endeavouring to cure maladies, distempers, and injuries, any quadrupeds or birds useful to man may be found subject to." It contains a Hospital, in which the diseases and injuries of animals are treated, and a Laboratory, where the investigation and study of diseases of animals are carried on. Both In and Out Patients are treated. Clin. students may be admitted to the Vet. Depts., and Research students are received in the Lab.

THE PHYSIOLOGICAL LABORATORY (Director—Prof. A. D. Waller, F.R.S.) in the Univ. Building, established in 1902, comprises a lecture-room, a workshop, a library, and rooms assigned to the Depts. of Physiol. Chem., Chem. Path. and Pharmacol., Electrophysiol., Genl. Exper. Physiol., and Exper. Psych. Courses of lectures on current research are given to Univ. students by lectrs. of the Univ. and others, and a limited number of duly qualified students are admitted as workers.

THE FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS (WITH WHICH IS ASSOCIATED THE DRAPERS' COMPANY'S BIOMETRIC LABORATORY). Director—Karl Pearson, M.A., LL.D., F.R.S., Galton Professor. These two form together a Department of Applied Statistics (housed at University College) adapted to the needs of post-graduate workers and of students training for special investigations.

The Francis Galton Laboratory was founded in 1904 for the study of those agencies under social control that may improve or impair the racial qualities of future generations, either physically or mentally. Open to Research students in Eugenics of both sexes.

The Biometric Laboratory, founded 1895, for the statistical study of biological problems, possesses a good collection of calculating machines, integrating mechanisms, moment-finders, as well as a large series of statistical models, etc. Research workers can start any time during the session, but, unless attending the lectures in the Dept., are expected to have a preliminary training either in Biol. or Maths.

Courses of Instruction are given on Statistics and cognate subjects, and also short courses of popular lectures. Fees (for Practical workers): per Term, £5. A Fee of 17 gs. per session admits to the Eugenic and Biometric Labs. on all days and to all lectures, as well as to the use of the Library and of the material in the Archives.

UNIVERSITY OF LONDON: BARTLETT SCHOOL OF ARCHITECTURE (Director—Prof. A. E. Richardson, F.R.I.B.A.) was established by the combination of the Archit. Schools of University and King's Colleges. The accommodation includes three large Studios for ordinary and advanced

students, a Museum, a Cast Gallery, a Library, a Lecture Theatre, and a Class Room. Rooms are also provided for the Department of Town-Planning instituted in Oct. 1914.

UNIVERSITY OF LONDON: COMMERCE DEGREE BUREAU (Director— .....) was founded in 1920 to help External and Part-time students proposing to take the Commerce Degree examns., to assist in the employment of Commerce Degree students and graduates at home and abroad, to provide a reference library, and generally promote the value of the Commerce degree.

SCHOOLS OF THE UNIVERSITY

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

VISITOR—H.M. THE KING.

CHAIRMAN OF THE GOVERNING BODY—The Most Hon. the MARQUESS OF CREWE, K.G., P.C., M.A., LL.D.

RECTOR—Sir ALFRED KEOGH, G.C.B., G.C.V.O., C.H., LL.D.

SECRETARY—A. GOW, M.A., B.Sc.

REGISTRAR—JOHN JONES.

Address—Imperial Institute Rd., S. Kensington, S.W.7.
Telegrams—Scientist, Southkens, London. Telephone—6444 Kensington.

Founded by Royal Charter in 1907 for the purpose of giving the highest specialized instruction and providing the fullest equipment for the most advanced training and research in various branches of Science, especially in its application to Industry, the Imperial College includes as integral parts the following Associated Colleges:

The Royal College of Science.
The Royal School of Mines.
The City and Guilds (Engineering) College.

The total staff exceeds 200. The College is a School of the University in Science and Engineering, having 47 Appointed and Recognized Teachers (v. p. 82). The buildings occupy about 8 acres and cost with equipment over £1,000,000.

LIBRARIES, ETC. The Library of the Science Museum is available for the use of Students, and each Dept. is provided with a special Library, RESEARCH LABORATORIES, and full facilities for advanced study.

DEPARTMENTS. The work is organized in 27 main and sub Depts. with the following Professorships: *R.C.S.*—Aerodynamics, Astro-Physics, Aviation, Bio-Chemistry, Bot., Chem. Technology, Fuel and Refractory Materials (Chem. Engineering under an Asst. Prof.), Meteorology, Chem., Econ. Mineralogy, Entom., Geol., Maths. (Pure), Maths. (Applied), Organic Chem., Phys. Chem., Physics (3), Plant Physiol., Tech. Optics (including Opt. Design and Mechanical Design), Technology of Woods and Fibres, Zool. *R.S.M.*—Mining, Mining Geol., Metall., Oil Technology (under Prof. of Geol.). *City and Guilds.*—Civil Engin., Elec. Engin., Mech. and Motive Power Engin. (including Aeronautical and Railway).

ADMISSION. The conditions of admission are as under, but the College reserves power to admit in special cases candidates whose qualifications do not in every respect coincide with those prescribed, but whose previous training fits them to take full advantage of the course proposed; the prescribed qualifi-

cations give no right to admission, but will be considered with others of which the candidate may give evidence. (i.) *R.C.S.* and *R.S.M.* A candidate for admission must be as a rule not less than 17 yrs. of age. For admission to 1st yr. Assoc. courses an Entrance examn. in Maths. and Mechanics, Chem. Physics, Engl., French or German or Spanish or Italian, and Geometrical or Freehand Drawing must be passed, unless equivalent examns. have been passed elsewhere. (The Matricn. examn. of the Univ. is considered equivalent provided the student has passed in "More Advanced Maths." and "Elem. Mechanics," and in the other subjects prescribed for the Entrance examn.) Candidates for admission to a 2nd yr. must pass the more advanced College Entrance examn. in Maths., Mechanics, Chem., and Physics, unless equivalent examns. have been passed elsewhere. For admission to a 3rd yr. candidates must have reached a standard correspondingly higher. (ii.) *City and Guilds.* A candidate desiring to enter for the 1st yr. of the Assoc'ship course must be at least 16 yrs. of age and must pass a special Entrance examn. in Maths. and Mechanics, Mech. Drawing, Phys., Chem., Engl., and French or German or Italian or Spanish, unless he has passed the Matricn. examn. of the Univ., taking certain specified subjects, including More Advanced Maths. For admission to the 2nd yr. course candidates must take the more advanced papers and the practical tests in the College examn., or they must have passed the Interm. B.Sc. (Eng.) in the Univ. in Maths., Pure and Applied, Heat, Electricity and Magnetism, Engineering, Drawing and Design, and Chemistry. Candidates for admission to advanced or research work in the *R.C.S.*, *R.S.M.*, or *C. and G.* are admitted on satisfying the Coll. authorities as to their previous training.

DIPLOMA AND OTHER COURSES. Associateship of each of the 3 associated Colls., 3 or 4 yrs.; specially arranged courses in Advanced Science or Technology, 1 or more yrs., leading to the Diploma of the Imperial Coll.; short courses dealing with special subjects for graduates or persons engaged in scientific industrial pursuits; occasional courses to suit individual needs.

FEES. Entrance, £2; Tuition, per session, for full-time Associateship or Post-Associateship courses of study, £60 (including Union fees), reducible for special reasons; for less than full-time courses, *pro rata*; for Research Work the fee is specially determined in each case between the limits £3 and £20 per session (including Union fees).

SCHOLARSHIPS. Entrance—18 of £60 each (6 for each of the Assoc. Colls.); Royal, awarded by Board of Educn., £60 each and fees (v. Regns., obtainable from H.M. Stationery Office, Kingsway, 1d.); Beit Fellowship for Research, £175 (for men and women graduates below the age of 25, Europeans only); £300, R.S.M., Frecheville Research Fellowships; £300 Plimmer Fellowship in Pathology; £100 in Botany; and many others (v. *Calendar*). Under a scheme established in 1920, 6 scholarships of £300 each (in special cases £400) may be awarded for 1 yr. for courses of post-graduate study in American Univs. or Works.

AFFILIATION, ETC. The Univ. of Sheffield is associated with the Coll. for Advanced Studies in the Metallurgy of Iron and Steel. Students of Huddersfield Technical Coll. may be admitted, subject to certain conditions, without examn.

PUBLICATIONS. *Calendar*, 6d.; *Annual Report*, with list of memoirs pubd. by members of the Coll., 3½d.

THE YEAR 1919–20

BENEFACTIONS. Prof. Frecheville, £2000 for 6 R.S.M. Research Fellowships in Mining, etc.; Rt. Hon. Sir A. Acland, £1050, and Sir O. Beit, £750, for fund for 6 overseas post-graduate Scholps. for a year's study in American Univ. Institns. or Works; Sir O. Beit, £10,000, and others, £9223; £28,000, through Rubber Growers' Assocn., for Botanical Research; an old student of the R.C.Sc. £8000 for equipment of new Lab. in Organic Chem.

NEW BUILDINGS, ETC. Organic Chem. Laboratory (£22,000) for processes on a scale intermediate between those of the Lab. and the Factory; Chem. Tech. Extension (to cost, with equipment, £46,000); Bio-Chem. Lab. equipment (£4000).

NEW DEPARTMENTS, ETC. Dept. of Aeronautics for post-grad. work, with Chairs of Aviation, Aerodynamics, Meteorology, and sundry expert special lectrs.; Chair of Bio-Chemistry.

CHANGES IN REGULATIONS, ETC. Steps were taken towards obtaining power to grant degrees.

OTHER DEVELOPMENTS. Great extension of special investigations by Research workers not graded as students; 26 were engaged on problems relating to food storage, silk, adhesives, etc.

DIPLOMAS GRANTED. A.R.C.S., 85 (including 65 in Chemistry); A.R.S.M., 31 (mining, 17; metall., 9; Oil Tech., 2; Mining Geol., 3); A.C.G.I., 100; D.I.C., 27. Women included in above, A.R.C.S. 2, D I C. 1.

NUMBER OF STUDENTS. Preparing for Diploma, 907, including 15 women (Chem., 218; Engin., 444; Mining, 90; Metall., 61; Biol., 24; Physics, 22; Mining Geol., 12; Oil Tech., 18; Opt. Engin., 5); post-diploma and research, 127, including 13 women (Biol., 51; Chem., 29; Chem. Tech., 16); occasionals, 75. Also 26 Research workers. New admissions for 1920–21, 396. Students from abroad, 108 (India, 28; S. Africa, 12; Australia, 9; N.Z., 4; Canada, 3; S. America, 8; China, 5; Japan, 5; Russia, 7; Portugal, 4; Belgium, 4; Roumania, 3; Norway, 3).

RETIREMENTS. Asst. Profs. A. R. Richardson, P. T. Wrigley.

EAST LONDON COLLEGE

Address—Mile End Rd., E. Telephone—3384 East.

Principal—J. L. S. Hatton, M.A. Registrar—E. J. Wignall.

Established 1892. Governed by a Council which includes the Master and Clerk of the Drapers' Co., and representatives of the L.C.C., the Univ., and the Staff. A School of the Univ. in Arts, Science, and Engin. Appointed and Recognized Teachers—35 (v. p. 82), in Aeronautics, Bot., Chem., Class., Engin., English, French, Geog., Geol., German, Hist., Maths., Physics, Spanish, Zool. Special Research LABORATORIES in Physics, Chem., Elec. Engin. Degree courses in Arts, Science, Engin. (including Aeronautical Engin.), and Med. Fees inclusive, £16 : 10s. Hostel for women. *Calendar*, 1s. post free.

NUMBER OF STUDENTS (Full-time, Day), over 600.

BIRKBECK COLLEGE

Address—Breams Buildings, E.C.4. Telephone—11514 Central.

Principal—G. Senter, D.Sc., Ph.D., F.I.C.

Secretary—G. F. Troup Horne, B.A.

Founded 1823. A School of the Univ. in Arts and Science for evening and part-time students for 5 yrs from Oct. 1920. Recognized Teachers—30 (v. p. 82), in Chem., Physics, Bot., Zool., Geol., Maths., Classics, French, Engl., German, Ital., Hist., Geog., Logic, Econ., and Brit. Constn. Courses for degrees in Arts and Science and for the Academic Diploma in Geog. *Fees* (including College societies) : Arts, Day, £7 : 10s. to £11 ; Science, £15 to £18 ; Evening, £6 per session. Registrn. fee for post-grad. work, 1 g. *Studentships*, 27, conferring remission of evening tuition fees, are awarded annually. *Number of Students* (Day and Evening), 1016. *Publications* : *Calendar*, 1s. ; *Annual Report*, *Lodestone* (Students' Mag.).

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

Address—Clare Market, W.C.2.
Telegrams—" Poleconics, Estrand." Telephone—6361 Central.

Director—Sir Wm. H. Beveridge, K.C.B., M.A., B.C.L.
Dean—Miss C. S. Mactaggart.

Founded 1895. A School of the Univ. in Economics and Political Science (including Commerce and Industry). Appointed and Recognized Teachers (v. p. 82)—35, in Acctcy., Banking, Comm., Econ., Ethnol., Geog., Hist., Law, Philos., Pol. Sc., Pub. Admn., Sociol., Stats., Transport ; others—20.

The British LIBRARY of Political Science, 160,000 vols., is housed in the School building. So also is the Ratan Tata Dept. of the Univ., under Prof.

Urwick, for Social work of many Academic kinds. The teaching is, in the main, intended for candidates for degrees in the Faculty of Economics, B.Sc.Econ., B.Com., and higher degrees, but students may also proceed to Research degrees in Arts and Science, and many of them do not proceed to degrees at all. The School co-operates with Univ. and King's Colleges in providing complete pass and Hons. courses for the LL.B.

Courses of Lectures, Classes, or Tutorial supervision are provided in all the subjects (with the exception of Insurance) for the B.Sc.Econ., and also languages and certain options for the B.Com. falling within the Faculty of Econ. and Pol. Sc. Courses at the School are also recognized in the Faculties of Arts, Laws, and Science. British and foreign economists and political students, professors at foreign Univs., etc., from time to time give short courses on their special subjects, and distinguished men engaged in public life or administration occasionally lecture to the students. Investigation and research work are done under the immediate personal supervision of the Director or a member of the Staff; the method of utilizing the Brit. Museum, Pub. Record Office, etc., is explained; brief bibliographies are supplied, together with information as to the main sources from which they may be extended. The manner in which students collect and use their material is criticized and discussed. Research Studentships of from £75 to £175 p.a. are awarded. *Fees*: per Session, 11 to 28 gs.

NUMBER OF STUDENTS (1919–20). Preparing for Bachelor's degree—Full-time, 178; Part-time, Day, 38, Evening, 157. Preparing for diplomas—Full-time, 491; Part-time, 28. Occasional—Part-time, Day, 455, Evg., 1479. Research for Higher degrees—Full-time, 18; Part-time, 16. Other Research Students—Full-time, 8; Part-time, 17. *Higher degrees obtained*—D.Sc., 3; M.Sc., 1.

SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE

Address—Wye, Kent. Telegrams—Dunstan, Wye. Telephone—1 Wye.

Principal—M. J. R. Dunstan, O.B.E., M.A., F.I.C. Secy.—J. N. L. Jones.

Founded 1894. A School of the Univ. in Science (Agric.). Recognized Teachers—4 (v. p. 82), in Agr., Bot., Vet. Sc.

LIBRARY, 3500 vols. LABORATORIES: Chem. Research, Biol. (35 places), Bact., Entom., Vet. Farm, 460 acres. Forestry demonstration plantation. Fruit research station.

Courses provided for B.Sc.—4 yrs., Diploma—3 yrs., Certif., Comml. Fruit-growing, Surveyors' and Estate Managers', and N.D.A.—2 yrs. Training for practical farming, for teaching, and for scientific advisory work. Instruction in Agric., Dairying, Farriery, Forestry, Hops, Hortic., Iron and Wood-work, Poultry and Bee-keeping. Extension Lectures, summer courses for Elem. School Teachers, short courses for farmers' sons. FEES, inclusive for board, lodging, and tuition: British Subjects, £150 p.a.; others, £180 p.a. Tuition only—British subjects, £85; others, £115 p.a. Reduced fees for ratepayers of Kent, Surrey, Sussex. PUBLICATIONS: *Journal*, 7s. 6d. p.a. (residents in Kent and Surrey, 3s. 6d.).

NUMBER OF STUDENTS. Preparing for degrees and diplomas: in 1917–18, 5; 1918–19, 20; 1919–20, 50. Other students, 145. Resident students, 87.

LONDON DAY TRAINING COLLEGE

Address—Southampton Row, W.C.1. Telephone—5918 Holborn.

Principal—Prof. John Adams, M.A., B.Sc., LL.D. Secy.—Miss G. M. Wacey.

Founded 1902. The Chancellor of the Univ. and Chairman of the L.C.C. are *ex-officio* members of the College Council. A School of the Univ. in Pedagogy. Appointed and Recog. Teachers, 6 (v. p. 86), in Educn.; others, 5.

Schools under the L.C.C. and others are used for practical instruction, and 3 Demonstration Schools are attached to the Coll.

Students are trained under the Regulations for the Training of Teachers (Wyman and Sons, Ltd., Fetter Lane, E.C., 6d.) for Elem. and Secondary Schools. Undergraduates can take a 4 yrs. course so as to combine B.A., B.Sc., or B.Sc. (Econ.) courses (taken at other Colls.) with Professional training. One who has already graduated may devote himself continuously for a year to Theory, etc., of Educn. and obtain the Univ. diploma. *Fees*: £20 p.a. *Scholarships*: Free place in 4 yrs. and 1 yr. courses. London students eligible for senior L.C.C. Scholps.

Number of Students (1920–21): Internal, graduates preparing for the diploma—58, including 37 women; for M A., 25 (11 women); total, 587 (373 women).

SCHOOL OF ORIENTAL STUDIES

Address—Finsbury Circus, E.C.2.

Director—Prof. Sir Edward D. Ross, C.I.E., Ph.D.

Secy.—Miss C. L. Glegg.

Established by Royal Charter, 1916. A School of the Univ. in Arts. Appointed and Recog. Teachers—19 (v. pp. 103, 104); others, 15. *Library*, 100,000 vols. *Fees*: 6 to 15 gs. per session; I.C.S. probationers, 15 gs. *Scholarships* (Gilchrist), 2 of £50 in Turkish and Chinese.

Number of Students: 539.

WOMEN'S COLLEGES

(See also p. 118.)

BEDFORD COLLEGE FOR WOMEN

Address—Inner Circle, Regent's Park, N.W.1
Telephone—6428 Mayfair

Principal—Miss Tuke, M.A. Secy.—Olive E. Monkhouse, M.B.E., B.A.

Founded 1849 A School of the Univ. in Arts and Science. Appointed and Recognized Teachers—30 (v. p. 82), in Bot., Chem., Classics, Dutch, Educn., English, French, Geol., German, Hist, Italian, Maths., Philos., Physics, Physiol., Zool. The Tate LIBRARY and Wernher Reading-Room contain 30,000 volumes. Special facilities for Research work in the LABORATORIES (Bact., Bot., Chem., Geol., Physics, Physiol., Psych., and Zool.).

Minimum age for admission, 17. Students are prepared for all examns. of the Univ. of London in Arts, Science, and Pedagogy, and for the Cambridge Teachers' Diploma. In Medicine the College is recognized by the Univ. for purposes of the First M.B., and in Chem. and Physiol. for the Second M.B. Examn.

RESIDENTIAL accommodation for 90 students in the Coll. and 80 at hostels. FEES (Inclusive Sessional), for tuition: Interm. Arts—42 gs.; B.A. Pass and Honours—£40; Interm. Science, First M.B and B.Sc. Pass—£56; Pedagogy—£37. *Average Inclusive Fees—College and Residence*: Interm. Arts—£144; B.A.—£139; First M.B., Interm. Sc., or B.Sc.—£156; Training—£137; M.A.—£116. SCHOLARSHIPS open to graduates: One in Sociology, £80 p.a. for 2 yrs.; one for research in Arts or Science, £125. Awarded biennially. PUBLICATIONS: *Calendar*, post free, 2s. 4d.

THE YEAR 1919–20. *Benefactions*: Bequests—Mrs. Oliver, £5000; Lady Tate, for Scholp., £2500. *New Posts*: Head of Dept. of Geog.; Univ. Reader in Dutch; Prof. of Botany. *Number of Students*, 599; preparing for B.A., 270; B.Sc., 151; Med., 5; Pedagogy, 28; M.A. and Research, 21; Social Studies, 36; General, 68. *Retirements*: Philippa Esdaile (Zool.), Catherine Raisin (Geol.), G. Rudler (French), D. A. Slater (Classics), Ethel Heaton (Educn.), Marjorie Long (Maths.), W. A. Pickard-Cambridge (Philos.).

ROYAL HOLLOWAY COLLEGE FOR WOMEN

Address—Englefield Green, Surrey. Telephone—114 Egham.

Principal—Miss E. C. Higgins, B.A. Secy.—Miss U. R. Dolling.

Opened in 1886. 19 miles from London. A School of the Univ. in Arts and Science. Appointed and Recog. Teachers—19 (v. p. 82), in Bot., Chem., Class., Engl., French, German, Hist., Maths., Physics, Zool. LIBRARY,

15,000 vols. LABORATORIES: Bot., Chem., Physics, Zool. Botanic Gardens —area of grounds, 95 acres. Residential accommodation for 200.

Courses provided for Bachelorship and Higher degrees in Arts and Science. Inclusive FEES: £120 a yr. Post-graduate studentships, 3 or 4 of £40 each, open to students of the Coll. only. PUBLICATIONS: *Calendar*, 2s. post free.

NUMBER OF STUDENTS (1920). Full-time, preparing for Bachelorship—190; for Higher degrees—6.

WESTFIELD COLLEGE, HAMPSTEAD

Address—Kidderpore Avenue, Finchley Rd., N.W.3.
Telephone—734 Hampstead.

Principal—Bertha Surtees Phillpotts, O.B.E., Litt.D.
Secy.—Miss E. C. Gedge.

Founded in 1882 by Miss Dudin Brown for the higher education of women. The college is undenominational, but the Principal is required to be a member of the Church of England. Situated near the south-west corner of Hampstead Heath; has residential accommodation for 79 students.

A School of the University in Arts. Appointed and Recognized Teachers (v. p. 82)—10, in Bot., Class., Engl., Fr., Hist., Maths.; 4 other Lectrs.

Students are not admitted under the age of 18, and are required to pass an Entrance examn. Approved courses (Hons. and Pass) in the Faculty of Science in Bot. and Maths. are provided, as well as Honours courses in Arts and Classics, and a 2 yrs. course for College Diploma in Citizenship. *Scholarships* and Bursaries are from time to time offered to graduates of this Univ. and of other Univs. Two rooms are set aside for Botanical Research. *Fees*: For tuition from 38 gs., residence £90 per session.

THE YEAR 1919–20. *Number of Students*: Full-time, preparing for B.A., 75; B.Sc., 12; graduate students, 5; others, 9. *Retirement*: B. M. Daunt (Engl. Lang.), transferred to Birkbeck College.

THEOLOGICAL SCHOOLS OF THE UNIVERSITY

NEW COLLEGE, HAMPSTEAD (Congregational), Finchley Road, N.W.3. Principal—A. E. Garvie, M.A., D.D. Secy.—Rev. H. Staines, M.A., B.D.

Founded 1696, reconstituted 1850. Recognized Teachers (v. p. 82), including Principal—5, in Classics and Theol. *Library*, 30,000 vols. *Fees* for B.D. course for non-ministerial students: 20 gs. p.a. *Number of Students*: 34.

HACKNEY COLLEGE (Congregational), Hampstead, N.W.3. Telephone —3719 Hampstead. Principal—P. T. Forsyth, M.A., D.D. Secy.—T. R. Grantham, Dorking.

Founded 1803. Recognized Teachers (v. p. 82)—6, in Classics and Theol. In its educational work, the College co-operates with New and Regent's Park Colleges. *Fees*: 6 gs. p.a. for each Univ. class. *Number of Students*: 31.

REGENT'S PARK COLLEGE (Baptist), Regent's Park, N.W.8. Principal—Rev. H. W. Robinson, M.A. Secy.—Rev. C. M. Hardy, B.A.

Founded 1810. Recognized Teachers (v. p. 82)—3, in Philos. and Theol. Students for an Arts degree attend classes at Univ. Coll. *Fees*: 2½ gs. each class per term. *Number of Students*: 25.

KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, W.C.2. Telephone—207 and 208 Gerrard. Dean—W. R. Matthews, M.A., B.D. Secy.—S. T. Shovelton, M.A.

Founded 1829 (*v. supra*, King's College). Recognized Teachers (v. p. 82) —10, in Class., Semitics, Philos., Theol.; others, 10. Complete courses for all Theol. degrees. Day and Evg. Classes. *Fees*: for tuition, undergraduate courses, £30 per session; full post-graduate course, 12 gs.; Ph.D., 21 gs. *Hostel* for students: fee for residence, £24 per term. *Number of Students* (1919–20): Full-time, 80; others, 60.

WESLEYAN COLLEGE, RICHMOND, Surrey. Principal—W. T. A. Barber, M.A., D.D. Secy. of Committee—Rev. R. W. Harding, B.D.

Opened 1843. Recognized Teachers (v. p. 82)—3, in Theol. All students are accepted candidates for Ministry of Wesleyan Methodist Church. Residential accommodation for 60. *Number of Students*: 60.

ST. JOHN'S HALL, HIGHBURY, London, N.5 (Church of England). Principal—A. W. Greenup, M.A., D.D., Litt.D. Hon. Secy. of Council—Rev. T. J. Pulvertaft, M.A.

Founded and endowed 1863 by A. Peache, of the Western Univ. of Canada. Recognized Teachers (v. p. 82)—5 (Arabic, Semitics, and Theol.); others—3. Courses for L.Th. Durham as well as for B.D. of London; courses in Faculty of Arts in Arabic. *Fees*: Entrance, 2 gs.; board and tuition, £75. Residential accommodation for 51 students. *Number of Students* (1920–21): Preparing for B.D.—5; D.D. and Litt.D.—2; others—53.

MEDICAL SCHOOLS OF THE UNIVERSITY

ST. BARTHOLOMEW'S HOSPITAL, West Smithfield, E.C.1. Dean—T. W. Shore, M.D., B.Sc. Sub-Dean—W. Girling Ball, F.R.C.S.

Founded 1662. Appointed and Recognized Teachers—45 (v. p. 82); others—40. *Library*: the largest of the kind in London. *Museum*: 9400 specimens, 2000 casts and drawings. *Laboratories*, with facilities for research in Path., Pharmacol., etc. 744 beds. *Fees*: 220 gs. for whole curriculum; from 1st M.B., 190 gs. *Scholarships*: total annual value over £1000; two for Research in Path. (£115) and Surg. (£105) open to graduates of any Univ. educated at Bart's. Fellowship £600, open to graduates of any Univ. for research in Lymphadenoma. *Residential College* within Hospl. grounds for 26 students (Warden, R. M. Vick, M.Ch., F.R.C.S.). Large Athletic Grounds. Students' Union, including Athletic Clubs and Abernethian Soc. *Publications*: *Hospital Reports*, annually, and *Journal* (Students'), monthly.

Number of Students: 280.

ST. THOMAS'S HOSPITAL, Albert Embankment, S.E.1. Dean—Sir Cuthbert S. Wallace, K.C.M.G., C.B. Medical Secretary—A. Elliot, M.A., M.D.

Founded in 16th century. Recognized Teachers—31 (v. p. 82); others—9. Path. Dept. includes Museum with 3000 specimens. Large Laboratories for teaching and research. Hospl. beds, 602. *Fees*: Tuition, 1st yr. £25, subsequent yrs. £50 each. Hostel accommodation for 15. *Number of Students*: 410.

WESTMINSTER HOSPITAL, 12 Caxton St., Westminster, S.W.1. Dean—A. S. Woodwark, C.M.G., C.B.E., D.Sc., M.D., F.R.C.P. Secy.—Major J. Burke. Women students are admitted.

Founded 1834. Recognized Teachers—19 (v. p. 82); others—13. *Fees*: 35 gs. p.a. and 10 gs. entrance. *Number of Students*: 32.

GUY'S HOSPITAL, St. Thomas's St., Borough, S.E.1. Dean—Prof. T. B. Johnston, M.B., Ch.B. Clerk to the Dean—S. H. Croucher.

Founded in connexion with St. Thomas's, 1769; as a separate School, 1826. Appointed and Recognized Teachers—40 (v. p. 82); others—22. Library, 10,000 vols. Museum, 5000 specimens and 2000 drawings. 613 beds. Fully equipped Dental Dept. with Lab. *Fees*: entrance, £28; annual, £49. Foundations in aid of Research include Lect'ship in Path., £1250 p.a.; in Clin. Chem., £190; Trav. Studentship, £100; Studentship in Mat. Med., £40; in Path., £230; Dem'rship in Clin. Chem., £160; in Path., £320; Med. Research Fellowship, £150. Numerous prizes and entrance scholps. Resident *appointments*—58 annually. *Residential* accommodation for 60 students. Furnished rooms, 18s. 6d. to 34s. *Number of Students*: 826.

ST. GEORGE'S HOSPITAL, Hyde Park Corner, S.W.1. Dean—R. R. James, F.R.C.S.

Founded 1752. Appointed and Recognized Teachers—21 (v. p. 82); others—19. 440 beds. *Fees*: entrance for Clinical course, 10 gs. Annual composition, 40 gs. Scholarships, etc., worth £270 p.a. for encouragement of research. *St. G.'s Gazette* is issued 3 times a year. *Number of Students*: 30.

LONDON HOSPITAL, Turner St., Mile End, E.1. Dean—Prof. W. Wright, M.B., D.Sc., F.R.C.S. Secy.—E. J. Burdon. Women students are admitted.

Founded 1785. Appointed and Recognized Teachers—37 (v. p. 82); others—59. Laboratories include those of Path. Inst. for Advanced Research. 933 beds. *Fees*: entrance, 20 gs.; annual, 40 gs. 34 scholps. and prizes. Hostel. 150 appointments available for students. *Number of Students*: 245 Med. and 30 Dental.

MIDDLESEX HOSPITAL, Union St., W.1. Dean—A. E. Webb-Johnson, C.B.E., F.R.C.S. School Secy.—J. P. Wetenhall, B.A. Secy. to Council—W. Kewley.

Founded 1835. Appointed and Recognized Teachers—29 (v. p. 82); others—13. Over 450 beds, including Cancer wing (90); Bland-Sutton Institute of Path. with Museum and Labs., Cancer Research Labs. *Fees*: Entrance, 15 gs.; annual, £42. Scholarships, etc., worth £1000 p.a. *Residential* accommodation for a few students. *Number of Students*: regular, 350; occasional, 180.

CHARING CROSS HOSPITAL, Charing Cross, W.C.2. Dean—W. J. Fenton, M.D., F.R.C.P. Vice-Dean—N. C. Lake, M.S., F.R.C.S. Women students admitted on equal terms with men.

Founded 1821. Appointed and Recognized Teachers (v. p. 82)—19; others—48. *Fees*: entrance, 10 gs.; annual, 35 gs. Several scholarships, etc. *Number of Students*: over 150.

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, 8 Hunter St., Brunswick Sq., W.C.1. Dean—Miss L. B. Aldrich-Blake, M.D., M.S. Warden and Secy.—Miss Brooks.

Founded 1874. Appointed and Recognized Teachers—18 (v. p. 82); others—32. 240 beds. Special arrangements with several other Hospls. for Clin. study and dresserships, etc. Research Laboratories: Anat., Biol., Chem., Path., Pharmacol., Physics, Physiol. Courses for B.Sc. Hons. in Anat. and Physiol., as well as for Med. degrees and diplomas. *Fees*: Composition, for full Med. course, £240, in annual instalments £35, £60, £60, £50, £35. Dental course, £90. *Scholarships*, etc., open to students of the School who have graduated in London, £40 and £30; to all Med. women, preferably those coming from or going to India, £100. Many other Scholps. *Residence*: unfurnished service chambers at from £44 to £100 p.a. for set accommodating 2 students.

THE YEAR 1919–20. Three new scholarships founded. Friendly society formed with capital £4700. *Number of Students*, 478.

UNIVERSITY COLLEGE HOSPITAL, Gower St., W.C.1. Dean—G. F. Blacker, C.B.E., M.D., F.R.C.P., F.R.C.S. Open to both sexes.

The Med. School was separated from the Univ. Coll. Med. Faculty in 1905. Recognized Teachers—18 (v. p. 82); others—82. *Library*, 13,500 vols. The *Charles Graham Laboratories*, under the direction of Prof. A. E. Boycott, were established in 1902 for research in Path. A limited number of qualified

students are admitted as Lab. workers, to whom grants may be made. *Fees*: course for Final M.B., B.S., or 3rd examn. of Conjoint Board—112 gs. *Scholarships, etc.*: annual value, £1000. *Residence* for Maternity students. *Publications*: *Calendar, Transactions of Research Dept., Magazine* (Students').

THE YEAR 1919–20. *Number of Students* increased from 164 to 265.

KING'S COLLEGE HOSPITAL, Denmark Hill, S.E.5. Dean—H. Willoughby Lyle, M.D., B.S., F.R.C.S. Secy.—S. C. Ranner, M.A. Women students are admitted.

Appointed and Recognized Teachers—27 (v. p. 82); others—17. *Fees*: entrance, 10 gs.; complete courses for Med. Degree examns., 150 gs. (to be increased soon); final course only, 70 gs. *Scholarships*: 2 of £80 for Ox. and Camb. students; 2 of £50 at entrance (one Arts, one Science) and 2 of £50 for students who have passed in Biol., Chem., and Physics and propose to graduate in any British Univ.

THE YEARS 1916–19. New Depts.—Urology, Orthop. and Fractures, Cardiology, Psych. Med., Out-patients. *Number of Students* (1920): 213.

ST. MARY'S HOSPITAL, Paddington, W.2. Dean—C. M. Wilson, M.D. Secy.—B. E. Matthews, B.A. Women students are admitted.

Founded 1852. Appointed and Recognized Teachers—35 (v. p. 82); others—6. *Fees*: Course for 1st M.B., 3 terms, 20 gs.; subsequent yrs., 40 gs. p.a. *Scholarships*: £100, £50, £25, and 2 of 50 gs.

THE YEARS 1916–19. Path. Institute formed. Hospls. for Children and Nervous Diseases and Infirmary affiliated for teaching. *Number of Students* (1919–20): 243.

LONDON SCHOOL OF TROPICAL MEDICINE. Dean—Sir Havelock Charles, G.C.V.O., I.M.S., M.D. Director—H. B. Newham, C.M.G., M.D. Secy.—P. J. Michelli, C.M.G., Seamen's Hospital, Greenwich, S.E.10. Open to both sexes.

Founded 1899; attached to the Hospl. for Tropical Diseases, Endsleigh Gdns., Euston Rd., N.W.1. Appointed and Recognized Teachers—9 (v. p. 82); others—10. Library, Museum, and up-to-date Laboratories with accommodation for 70. Special Depts. for Entom., Helminth., Proto-zool. In the various Hospls. of the Society are always numerous cases of Trop. Diseases. The funds available for encouraging research include Wandsworth Bequest, £10,000, and £60 p.a. from E. J. Stanley Memorial. Many Trop. Research expeditions have been equipped and maintained by the School. Students must be qualified Med. practitioners or in 5th yr. of Med. studies. An examn. is held at end of each term. Trop. Med. courses suitable for candidates for the M.D. in Trop. Med. Camb. diploma in Trop. Med. and Hyg., and diploma in Dis., etc., of Tropics of Roy. Colls. Certificates granted. *Fees*: 20 gs. for 12 weeks. *Number of Students* (1920): 159.

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Rd., S.W.1. Director—Prof. C. J. Martin, C.M.G., M.B., D.Sc., F.R.S.

Founded 1901 for Research into causation, prevention, and treatment of diseases of men and animals. Open to Research students of both sexes, usually without fee. Appointed and Recognized Teachers—4 (v. p. 82); 12 other members of scientific staff.

ROYAL ARMY MEDICAL COLLEGE, Grosvenor Rd., S.W.1. Commandant—Col. H. A. Hinge, C.B., C.M.G., D.S.O.

Opened 1902; under Army Med. Advisory Board; open only to fully qualified medical men commissioned in or probationers for the R.A.M.C. or I.M.S. Profs. of Path. and Bact., Hygiene, Trop. Med., and Military Surgery. Special teaching in Physical Training and at Mily. Hospl. (81 beds), Syphilology. Qu. Alexandra Mily. Hospl. (243 beds) forms part of the Coll. Students (average, about 70) are probationers and Captains, R.A.M.C., taking 9 mos. course for promotion. *Residential* accommodation for 70.

ROYAL DENTAL HOSPITAL AND LONDON SCHOOL OF DENTAL SURGERY, 32 Leicester Sq., W.C.2. Dean—H. Stobie, L.R.C.P., M.R.C.S., L.D.S. Secy.—W. J. Wadham.

Founded 1858. Open to both sexes. Recognized Teachers—3 (v. *supra*—p. 85); others—30. Library, Museum, and Laboratories. X-Ray Dept. *Fees*: £70 for 2 yrs. Hospl. practice and Lectures, or, including 2 yrs. Dent. Mechanics, £200. *Number of Students* (1920): 263.

NAVAL MEDICAL SCHOOL OF THE ROYAL NAVAL COLLEGE, Greenwich, S.E.10. Director of Med. Studies—Surg.-Comdr. R. St. G. Bond, R.N., F.R.C.S.E., M.R.C.P., D.P.H.

Opened 1912. Courses (twice a year) in General and Naval Hygiene, Clin. Path., Micro-Biology, for acting Surg.-Lieuts. (2 mos., followed by 4 mos. at Haslar Hospl.); Surg.-Lieuts. (5 mos.) for promotion; for Senior Med. Officers (3 mos.). Number of officers under instruction (average)—80 a year.

NATIONAL DENTAL HOSPITAL AND UNIVERSITY COLLEGE HOSPITAL DENTAL SCHOOL, 187 to 191 Gt. Portland St., W.1. Sub-Dean for Students in U.C.H. Dental School—A. B. G. Underwood, M.B., B.S., M.R.C.S., L.R.C.P., L.D.S. Eng. Clerk—M. P. Collings. Open to both sexes.

The College, opened in 1877 at the N.D.H. (founded 1861), became in 1914 the Dental School of U.C.H. Recognized Teachers—2 (v. p. 85). Complete modern equipment in all branches including X-Ray Dept. Ample clinical material. Students are entered as students of U.C.H., and as such attend Chem., Physics, Anat. and Physiol. classes in Univ. Coll., a few minutes' walk from Gt. Portland St. *Fees*: for 4 yrs. course (2 yrs. Dent. Mech., Chem., Physics, Anat., Physiol.; 2 yrs. Hospl. Practice, Med.; Surg. and Dent. Lectures)—£257, namely, £77, £56, £92, £32; Medical men, 2 yrs., Mech. and Dental Practice and Lectures—£102, £70; 6 yrs. Med. and Dent. Educn.—£438, namely, £113, £70, £73, £60, £73, £49; women, 4 yrs. Dent. course only—£70, £42, £31, £31. *Number of Students* (1917 to 1920): 33, 54, 64, 82.

INSTITUTIONS WITH RECOGNIZED TEACHERS

[(*a*) Principal. (*b*) Subjects in which recognized. (*c*) Number of students.]

1. UNIVERSITY OF LONDON, GOLDSMITHS' COLLEGE, New Cross, S.E.14. Incorporated in the Univ. Warden, and Principal of the Training Dept.—T. Raymont, M.A. Vice-P'pals. of Training Dept.—F. H. C. Brock, M.A., and Miss C. C. Graveson, B.A.

Opened in 1905 in buildings presented by the Goldsmiths' Company, whose "Technical and Recreative Institute" had been carried on therein since 1891. Open to both sexes. Recognized Teachers—9 (v. p. 82—Art, Classics, Educn., Engl., Hist., Maths.); others—63.

Training Department. Recognized by Bd. of Educn. as a Training Coll. (Elem.). Ordinary course—2 yrs., or for students preparing for B.A. (Pass) degree—3 yrs. Lectrs. and Instrs.—36. *Fee* for tuition with midday meal: £18. Hostels provide accommodation for nearly all the women and many men students.

School of Art (Day and Evening). Headmaster and 7 Assts. *Fees*: Day, 1 to 10 gs., Evening, ½ to 2 gs., per session.

Engineering and Building Dept. (Evening). Carried on at expense of L.C.C. and only temporarily retained at the Coll. Courses: College Certif. and Diploma; C.G.I. examns.; Engineering Degree (5 yrs.).

2. BATTERSEA POLYTECHNIC, Battersea Park Rd., S.W.11. (*a*) R. H. Pickard, D.Sc., F.R.S. (*b*) Chem., Engin. (Civ., Elec., Mech.), Maths., Music, Physics. (*c*) 3100.

3. BIRKBECK COLLEGE, Bream's Buildings, E.C.4. (*a*) G. Senter, D.Sc., Ph.D., F.I.C. (v. p. 124).

4. CITY OF LONDON COLLEGE, White St., Moorfields, E.C.2. (*a*) S. Humphries, B.A., LL.B. (*b*) French, Law (Comml. and Merc.), Maths. (*c*) Day, 380; Evg., 2900.

5. CITY AND GUILDS TECHNICAL COLLEGE, Leonard St., Finsbury, E.C.2. *Dean*—Prof. W. H. Eccles, D.Sc., M.I.E.E. (*b*) Engin. (Civ., Mech., Elec.), Appl. Maths., Physics, Chem. (*c*) Day, 260.

6. JEWS' COLLEGE, Queen Sq. House, Guilford St., W.C.1. (*a*) A. Büchler, Ph.D. (*b*) Hebrew, Semitics. (*c*) 16.

7. NORTHAMPTON POLYTECHNIC INSTITUTE, St. John St., E.C.1. (*a*) R. M. Walmsley, D.Sc., M.I.E.E. (*b*) Engin. (Elec., Civil, Mech.), Maths., Surv. (*c*) 2849.

8. NORTHERN POLYTECHNIC INSTITUTE, Holloway, N. (*a*) R. S. Clay, D.Sc., B.A. (*b*) Bot., Chem., Maths., Physics. (*c*) 2844.

9. ROYAL VETERINARY COLLEGE, Gt. College St., Camden Town, N.W.1. (*a*) Sir John McFadyean, LL.D., M.B., C.M., B.Sc., M.R.C.V.S. (*b*) Biol., Chem., Vet. Anat., Vet. Hyg., Vet. Path. and Bact., Vet Physiol. (*c*) 181.

10. SIR JOHN CASS TECHNICAL INSTITUTE, Jewry St., Aldgate, E.C.3. (*a*) C. A. Keane, D.Sc., Ph.D. (*b*) Chem., Maths., Physics. (*c*) 950.

11. SOUTH-WESTERN POLYTECHNIC INSTITUTE, Manresa Rd., Chelsea, S.W.3. (*a*) S. Skinner, M.A. (*b*) Bot., Chem., Geol., Maths., Music, Physics, Zool. (*c*) Day, 1043; Evg., 2665.

12. WEST HAM MUNICIPAL TECHNICAL INSTITUTE, Romford Rd., West Ham, E.15. (*a*) T. C. Baillie, M.A., D.Sc. (*b*) Chem., Engin. Civ., Elec., Mech.), Maths., Physics. (*c*) Day, 340; Evg., 2269.

13. WOOLWICH POLYTECHNIC, Lower Market St., Woolwich. (*a*) A. F. Hogg, M.A., F.C.S. (*b*) Chem., Engin. (E.,M.), Maths., Phys. (*c*) 1500.

14. MARIA GREY TRAINING COLLEGE, Salusbury Rd., Brondesbury, N.W.6. (*a*) Miss K. L. Johnston, M.A. (*b*) Educn. (*c*) 53.

15. ST. MARY'S COLLEGE, 34 Lancaster Gate, W.2. (*a*) Miss H. L. Powell. (*b*) Pedagogy. (*c*) 8.

16. BOROUGH ROAD COLLEGE, ISLEWORTH. (*a*) T. H. Miller, M.A., D.Sc. (*b*) Maths. (*c*) Resident, 139; non-resident, 4.

17. ST. JOHN'S COLLEGE, BATTERSEA, Vicarage Rd., S.W.11. (*a*) G. H. Dix, M.A. (*c*) 140.

18. ST. MARK'S COLLEGE, CHELSEA. (*a*) R. Hudson, M.A. (*b*) Educn. (*c*) 100.

19. ROYAL ACADEMY OF MUSIC, Marylebone Rd., N.W.1. (*a*) Sir A. C. Mackenzie, Mus.D., LL.D., D.C.L., F.R.A.M. (*b*) Music. (*c*) 770.

20. ROYAL COLLEGE OF MUSIC, Prince Consort Rd., S. Kensington, S.W.7. *Director*—Prof. Sir H. P. Allen, M.A., Mus.D. (*b*) Music. (*c*) 450.

21. TRINITY COLLEGE OF MUSIC, Mandeville Place, W.1. *Chairman of the Board*—Sir Frederick Bridge, C.V.O., D.Mus., M.A. (*b*) Educn. (Ped. is applied to Music), Theoretical M. subjects. (*c*) 614.

22. GUILDHALL SCHOOL OF MUSIC, John Carpenter St., E.C.4. (*a*) Landon Ronald. (*b*) Music. (*c*) 2700.

22A. PHYSIOLOGICAL LABORATORY, v. p. 119.

23. BETHLEM ROYAL HOSPITAL, Lambeth Rd., S.E.1. *Physician Supt.*—J. G. Porter Phillips, M.D., B.S. (*b*) Mental Diseases.

24. BROMPTON HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Fulham Rd., S.W.3. *Dean*—L. S. Burrell, M.A., M.D.; *Sub-Dean*—A. C. Inman, M.A., M.B. (*b*) Med.

25. HOSPITAL FOR SICK CHILDREN, Gt. Ormond St., W.C.1. *Dean*—Oswald L. Addison, F.R.C.S. (*b*) Dis. of Child., Surg. (*c*) 270.

26. NATIONAL HOSPITAL FOR THE PARALYSED AND EPILEPTIC, Queen Sq., W.C.1. *Dean*—C. M. Hinds Howell, M.D., F.R.C.P. (*b*) Aural Surg., Med., Neurol., Ophth., Surg. (*c*) 355.

27. ROYAL LONDON OPHTHALMIC HOSPITAL, City Rd., E.C.1. *Dean*—M. L. Hepburn, M.D., B.S., F.R.C.S. (*b*) Ophth. (*c*) 66.

28. SCHOOL OF PHARMACY OF THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Sq., W.C.1. *Dean*—H. G. Greenish, F.I.C. (*b*) Pharmaceutics. (*c*) 166.

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Macgregor, J., A.R.I.B.A. Lectr.
Morrey, P., B.Sc.Tech. Asst Lectr. (Bldg Constn.).
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Grant, J. L., A.R.I.B.A. (Drawing and Design) Demr

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Lang, W. H., M.B., C.M., D.Sc. Glas., F.R.S. Barker Prof.

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Myers, J. E., O.B E., D.Sc.

Jones, W. J., B.Sc. Wales, D.Sc

Stephen, H., O.B.E., D.Sc.

Challenger, F., D.Sc Birm , B.Sc. Lond., Ph.D. Gott.

Lectrs.:

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Bangham, D. H., B.A. Ox.

Care, A. F., M.Sc.

Fairbrother, F., M.Sc. Asst.

Harwood, J., M.Sc Asst.

Royle, F. A., M.Sc. Asst.

Weston, A., B.Sc. Asst.

Core, C. G., M Sc. Asst.

Gaul, E. G., M.Sc. (Bact. C.)

Chinese

Parker, E. H., M.A. Prof.

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Crystallography

The Vice-Chancellor Prof.

Dentistry v *infra*

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Economics, Railway

Daniels, G. W., M.A., B.Com. Lectr.

Education

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Wheeler, Olive A., D.Sc. Lond., M.Sc. Wales Lectr. & Tutor.

Goldsack, Irene R. (E. of the Deaf) E. Ll. Jones Lectr.

Conway, Gladys, B.A. Liv. (Continuation School E.) Lectr.

Start, Laura E., M.Ed. Lectr.

Cavenagh, F. A., M.A. Lond. Lectr.

Hindshaw, Winifred, M.A., M.Ed. Lectr.

Bruce, Gwendolen Lectr.

Jackson, S. F., M.A., Litt.D. Liv., M.A. Lectr.

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Paton, J. L., M.A. Camb. (S.).
Hodson, G. S., M.A. (S.)
Oppenheimer, Mary Asst. Lectr.
Keighley, T., Mus.D. (Elementary E.—Singing) Lectr.

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Higham, J., B.Sc. Lectr.

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Sandeman, E., M.Sc., M.I.C.E. Assoc. Prof. and (S.) in Water Supply and Irrign.
Dewhurst, C. B., M.Sc., A.I.C.E. Clifton Lectr.
Cook, G., M.Sc., A.M.I.C.E., A.M.I.M.E. Sen. Lectr.
Frith, J., M.Sc., M.I.E.E. (Mech. E.) (S.).
..... Lectr.
Mason, C. M., M.Sc., A.M.I.C.E Lectr.
Jones, Eric, B.Sc. Asst. Lectr.
Baker, H. W., B.Sc. Asst. Lectr.
Higgins, A. L., M.Sc. Belf. Asst. Lectr.
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Harmer, Florence, B.A. Lond. Lectr.

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Charlton, H. B., M.A. Leeds Sen. Lectr.
Harmer, Florence, B.A. Lond. Lectr.
Sheavyn, Phoebe, D.Lit. Lond. (S)
Parker, Eliz., M.A. Asst. Lectr

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Kastner, L. E., M.A Camb Prof.
Orr, J., M.A., B.Litt. Ox., L. ès L. Paris (Language) Prof.
Marks, J., M.A. Lectr.
Valette, Mme. Andrée, L. ès L. Paris Lectr.
Fawtier, R., L. ès L., Ag d'Hist. Lectr.
Crump, Phyllis E., M.A. Lond. Asst. Lectr.
Fawtier, Mme. Ethel, D. de l'U. Paris Asst. Lectr.
Webb, Ethel Asst. Lectr.

Geography
..... Reader.
Marten, Gladys M. Asst. Lectr.

Geology, Palæont., and Petrol.
Jones, O. T., M.A. Camb., D.Sc. Wales Prof.
Dawkins, Sir Wm. Boyd, M.A., D.Sc. Ox. and Manc., F.R.S. Prof. (H.).
..... Reader.
Williams, N. T., B.Sc. Wales (Mining) Lectr.
Charlesworth, J. K., M.Sc. Leeds, Ph.D. Bres., F.G.S. Sen. Lectr.
Lindsey, Marjorie, M.Sc. Lectr.

German and G. Philology
Johannson, A., M.A. Dorpat and Manc. Henry Simon Prof.
Halliday, F. W., M.A. Lectr.
Lloyd, M. D. I., M.A. Wales Lectr.

Hebrew v. Semitic

History, v. also Econ., Palæog., Theol.
Tout, T. F., M.A. Ox. and Manc., F.B.A. Prof.
Muir, J. R. B., M.A. Ox., Liv., and Manc. (Modern H.) Prof.

Powicke, F. M., M.A. Ox. and Manc. (Mediæval) Prof.
Waugh, W. T., M.A., B.D. (Eccl. H.) Bishop Fraser Reader.
Atkinson, D., B.A. Ox. (Ancient) Reader.
Higham, C. S. S., B.A. Camb. Lectr.
Galbraith, V. H., M.A. Ox. Asst. Lectr.
Mudie, Phyllis, M.A. Asst. Lectr.
Morehouse, Frances, M.A. Ill. Asst. Lectr.
Fiddes, E., M.A. Camb., Aberd. and Manc. (Roman) (S.).
Dunlop, R., M A. (Irish) (S.).
Fawtier, R. (French) (S.).

Italian Studies
Gardner, E. G., Litt.D. Camb. Prof.
Valgimigli, A. Even. Class Lectr.

Law
Brierly, J. L., B.C.L , M A. Ox. Prof.
Bottomley, L., LL.D. Lond., M.A., LL.B. Tutor.
Eastwood, R. A., LL.D. Lectr.
Eastwood, T. C., B.A., LL.D. Lond., B.A. Lectr.
Burgis, E. C., M.A., B.C.L. Ox., LL.B. Lectr.
Osborne, F. B., M.A. Ox. Lectr.
Ferguson, H. S., F.C.A. Lectr.

Mathematics, v. also Tech.
Chapman, Sydney, M.A. Camb., D.Sc., F.R.S. (M. and Nat. Philos.) Beyer Prof.
Livens, G. H., M.A. Camb. Fielden (Sen.) Lectr.
Jones, J. E., M.Sc. Lectr.
Child, J. M., M.A Camb., B.Sc. Lond. Lectr.
Eagle, Albert, A.R.C.S. Lectr.
Bailey, W. H., M.A. Camb. Lectr.

Metallurgy, v. also Tech.
Alkins, W. E., B.Sc. Lectr.
Cook, M., B.Sc. Asst. Lectr.

Mining v. Geol.

Music
Brodsky, A., Mus.D. Lectr.
Keighley, T., Mus.D. Lectr.
Wilcock, A. W., Mus.D. Lectr.

Palæography
Little, A. G., M.A. Ox. Lectr.

Philology v. Classics, German

Philosophy, v. also Psych., Theol.
Alexander, S., M.A. Ox. and Manc., LL.D. St. And. Sir S. Hall Prof.

Physics, v. also Elec. and Tech.
Bragg, W. L., M.A. Camb. Langworthy Prof.
Schuster Sir Arthur, Sc.D. Camb., Ph.D. Heid., D.Sc., F.R.S. Prof. (H.).
..... Reader.
Nuttall, J. N., M.Sc. Sen. Lectr.
Robinson, H., D.Sc. Sen. Lectr.
James, R. W., B.A. Camb. ,,
Bell, H., M.A. Edin. Lectr.
Dickson, E. C. Scott, B.A. Camb., Ph.D. Bonn Lectr.
Watson, W. H., B.Sc. Asst. Lectr.
Walmsley, H. B., B.Sc. ,, ,,
Swann, Enoch, B.Sc. ,, ,,
Cooper, P. A., B.Sc. Birm. ,, ,,
Ellis, Annie, B.Sc. Asst. Lectr.

Physiology and Histology
Hill, A. V., O.B.E., M.A. Camb. F.R.S. Brackenbury Prof.
Lamb, F. W. J. A., B.A., M.D., D.P.H. Lectr.
Robinson, A. L., M.B., M.A., Sc.B. Dub. Lectr. (Chem. P.).
McSwiney, B. A., M.B. Dub. Lectr. (Exper. P.).
Wilson, S. R., M.B., F.R.C.S. Edin. Asst. Lectr.
Ritchie, A. D., M.A. St. And., B.A. Camb. Asst. Lectr.

Psychology [Prof.
Pear, T. H., B.Sc. Lond., M.A.
Watts, Frank, M.A. Lond. Lectr.

Public Health v. *infra*

Railways v. Econ.

Russian [Sir W. Mather Prof.
Trofimov, M. V., M.A. Pet.

Semitic Langs. and Lit.
Canney, M. A , M.A. Ox. Prof.
Farbridge, M. H., M.A.
Asst. Lectr.

Spanish
Yañez, J. B. (Santiago) Lectr.

Technology v. *infra*

Theology, v. also Classics
Peake, A. S., M.A. Ox., D.D.
Aberd., B.D. (Bibl. Crit.)
Rylands Prof.
Perry, W. J , B.A Camb. (Comp.
Religion) Reader.
Waugh, W. T., M.A., B.D. (Eccl.
Hist.) Bishop Fraser Reader.
Lectrs. :
Mackintosh, R., B.D. Edin., M.A.,
D.D. Glas (Philos. of Rel.)
Parsons, R. G , M.A. Ox (Bib. Cr.)

Lectrs. in Hist. of Doctrine :
Marshall, J. T., M.A. Lond., D.D.
Tor.
Mellone, S. H., M.A. Lond., D.Sc.
Edin.
Mumford, A. H., B.A. Lond., B.D.
Edin.
Grensted, L. W., M.A. Ox., B D.
Brewis, J. T., B.A., B.D.
Moulton, W. J., M.A., B.D. Camb.
Townsend, H., M.A., D.D. Lond.

Veterinary v. *infra*, Pub. Health

Zoology
Hickson, S. J., M.A. Camb., D.Sc.
Lond., D.Z. and Bot. Grön.,
F.R.S. Beyer Prof.
Thomson, J. Stuart, Ph.D. Berne,
M.Sc. Sen. Lectr

Lectrs. :
Lapage, G., M.Sc., M.B., Ch.B.
Wardle, R. A., M.Sc. (Econ. Z.).

Medicine

Anæsthetics
Wilson, A., F.R.C.S. (H.).

Cancer Research (Swindells Lab.)
White, C. P., M.A., M.D. Camb.,
F.R.C.S. (H.) and Dir. of Lab.

Children, Diseases of
Lapage, C. P., M.D. Lectr.

Dermatology, v. also Path.
Lancashire, G. H., M.D. Bruss.
Lectr.

Ear, Diseases of the [Lectr.
Milligan, Sir W., M.D Aberd.

Forensic M. v. Path.

Gynæc. v. Obst.

Hygiene v. Pub. Health

Infectious Diseases [(C.).
Fletcher, J., M D. Aberd., D.P.H.

Larynx, Diseases of the [Lectr.
Milligan, Sir W., M.D. Aberd.
Westmacott, H., C.B.E., F.R.S.(C.).

Materia Med., Therap., and Pharmacy
Wild, R. B., M.D. Lond., M.Sc.,
F.R.C.P. Leech Prof.
Grier, J., M.Sc. Lectr. & Demr.
Leech, E. B., M.D. Camb.,
F.R.C.P.
Asst. Lectr. & Demr.
Roberts, Ivy, B.Sc. (Pharm. and
Pharm. Chem.) Asst. Lectr.
Duncan, Jeanette, Dip. Phm. Soc.
Demr.
Rawsthorne, F., L.D.S. (Dent.
M.M.) Lectr.

Medicine, Clinical
Reynolds, E. S., M.D. Lond., B.Sc.,
F.R.C.P. Prof.
Brockbank, E. M., M.D., F.R.C.P.
Lectr.
Ramsbottom, A., M.D., D.P.H.
Lectr

Tylecote, F. E., M.D., D.P.H Lectr.
Melland, C. H., M.D., B.Sc. Lectr.
Core, D. E., M.D. Lectr.

Medicine, Systematic
Murray, G. R., M.A., M.D. Camb., M.D. Dub., D.C.L. Durh., F.R.C.P. Prof.
Moore, F. Craven, M.D., M.Sc., F.R.C.P. Lectr.

Mental Diseases
..... Lectr.

Obstetrics and Gynæcology
Donald, A., M.A., M.D. Edin., F.R.C.P. Prof.
Fothergill, W. E., M.A., B.Sc., M.D. Edin. Prof.
Shaw, W. F., M.D. Lectr.
Dougal, D., M.D. Asst Lectr

Ophthalmology
..... Lectr.
Clegg, J. G., M.D. Lond., M.B., Ch.B., F.R.C.S. (Clin. O.) Lectr.

Otology
Sewell, D. L., M.B., B.S. Lond. (C.)

Pathology and Path. Anat.
Dean, H. R., M.A., M.D., B.Ch. Ox., F.R.C.P. Procter Prof.
Anderton, W. B., M.B. Lond. (P. and Forensic M.) Lectr. & Curator of Museum.
Dible, J. H., M.B. Glas. Lectr.
Renshaw, A., M D., B.S. Lond., B.D.S. Asst. Lectr.
Loveday, G. E., M.A., M.B., B.C. Camb. (Clin. P.) Lectr.
Holker, J., M.Sc., M.B., Ch.B. (Chem. P.) Lectr.
Dyson, W., M.D. (P. of the Skin) (H.) (S.).

Surgery, Clinical
..... Prof.
Buckley, J. P., M.A , M.D., B.C. Camb., M.B., M.S. Lond., F.R.C.S. Lectr.
Hey, W. H., M.B., Ch.B., F.R.C.S. Lectr.
Rayner, H. H., M.B., Ch.B., F.R.C.S. Lectr.

Surgery, Operative
Wrigley, P. R., F.R.C.S. Lectr.
Wright, G., M.B., Ch.B. Edin., F.R.C.S. Lectr.

Surgery, Orthopædic
Roberts, C., M.B., B.S. Lond., F.R.C.S. Lectr.

Surgery, Practical
Burgess, A. H., M.B., M.Sc., F.R.C.S. Lectr.

Surgery, Systematic
Smith, J. W., M.B., C.M. Edin., F.R.C.S. Prof.
Telford, E. D., M.A., B.C. Camb., F.R.C.S. Lectr.

Surgical Pathology [Lectr.
Ray, J. H., M.B., Ch.M., F.R.C.S.

Therapeutics v. Mat. Med.

Vaccination
Mitchell, A. M., M B , Ch.B. Aberd. Lectr.

Venereal Diseases
Macalpine, J. B., M.B., Ch.B. Instr. (C.).
Reid, W. J. S., M.A., M.D., B.Sc. Aberd. Instr. (C.).
Whitehead, Gordon, M.B., Ch.B. Instr. (C.).
Wilson, A., F.R.C.S. Instr. (C.).
Gibson, R., M.D. Instr. (C.).

Dentistry

Lectrs.:
Preston, C. H., M.D. Lond., F.R.C.S., L.D.S. (Anat. and Physiol.).
Rodway, B. J., L.D.S. (Mechanics and Prosthetics).
Houghton, E., L.D.S. (Operative Surgery).
Rayner, H. H., M.B., Ch.B. (Regional Surgery).
Headridge, D., L.D.S. (Histol.).

Headridge, J. P., B.Sc. Lond., L.D.S., D.D.S. (Metall.).
Campion, G. G., L.D.S. (Orthodontics).
Simms, H., M.D., L.D.S. (Path. and Surg.).
Wild, Prof. (v. Med. (Mat. Med.)).
Rawsthorne, F., L.D.S. (Mat. Med.).
Dean, Prof. (v. Path.) (Bacteriology).

Public Health

Principles of P.H.

Delépine, A. S., M.B., C.M. Edin., B.Sc. Laus., M.Sc. (P.H. and Bact.) Prof.
Sidebotham, E. J., M.A., M.B. Camb. (Pract. Bact. and Microscopy) Lectr.
Ramsbottom, E. N., B.Sc., M.D. Lond., D.P.H. Asst. Lectr in P.B. & M.
Sellers, A., M.D. Edin., D.P.H. (Pract. Comp. Path.) Lectr.
Heap, H., M.Sc. (Pract. Chem.) Lectr.

Administration

Butterworth, J. J., M.D., D.P.H. Lectr. in Hygiene and A.
Brindley, A. E., M.D. Lond., B.Sc., D.P.H. Lectr.

Factory Hygiene

Legge, T. M., M.A., M.D. Ox., D.P.H. Lectr.

School Hygiene [Lectr.

Young, M., M.D. Edin., D.P.H.

Vet. Hygiene

Woods, W., F.R.C.V.S. Lectr.

Technology

..... Principal of the College of Tech. and Dean of the Faculty.

Architecture v. *supra*

Chemistry, Applied

Pyman, F. L., Ph.D. Basle, D Sc., F.I.C. Prof. of Technol. C.
Knecht, E., M.Sc.Tech., Ph.D. Zür., F.I.C. Assoc. Prof.

Lectrs. :

Grant, J., M.Sc.Tech., F.I.C.
Sinnatt, F. S., M.B.E., M.Sc.Tech., F.I.C., M.I.Min.E. (Fuels).
Radcliffe, L. G., M.Sc.Tech., F.I.C. (Organic C.).
Wood, J. K., D.Sc. (Physical C.).
Hibbert, Eva, M.Sc.Tech. Asst. Lectr.

8 Demrs.

Dyeing, Bleaching, and Printing and Paper Manuf.

Huebner, J., M.Sc.Tech., F.I.C. Lectr.
Rowe, F. M., M.Sc. A.T.C. Lectr.

Engineering, Electrical

Walker, Miles, M.A. Camb., D.Sc. Lond., M.I.E.E. Prof.

Lectrs. :

Langton, J. L., M.Sc., M.I.E.E.
Moore, A. E., M.Sc.Tech., M.I.E.E.
Hollingworth, J., M.A. Camb., B.Sc. Lond., A.M.I.E.E.
Clayton, A. E., B.Sc. Lond., A.M.I.E.E.

Asst. Lectrs. :

Hoyle, B., M.Sc.Tech., A.M.I.E.E.
Glynne, A., M.A. Camb.
Shelley, H. J., B Sc.

Engineering, Mechanical

Stoney, G. G., M.A.I. Dub., D.Sc. Durh., M.I.C.E., M.I.M.E., M.I.E.E., F.R.S. Prof.

Lectrs. :

Jordan, H. G., M.Sc.Tech., A.R.C.S.I., M.I.M.E.
Petrie, P. T., M.Sc. Leeds. A.M.I.C.E.
Popplewell, W. C., M.Sc., A.M.I.C.E.

Smith, Dempster, M.B.E., M.Sc.Tech., M.I.M.E.
Walker, W. J., B.Sc. St. And., A.M.I.C.E., A.M.I.M.E.
Jones, T. H., M.Sc., A.M.I.M.E. (Eng. Drawing).
Boswall, R. O., B.Sc.Eng. Lond., A.M.I.M.E.
Chappell, Ernest, B.Sc., A.M.I.C.E.

Asst. Lectrs. & Demrs. :
Anderson, R. M., A.T.C., M Sc.Tech.
Edmondson, A. R., M.Sc., A.M.I.C.E., A M.I.M.E.
Ferguson, R. M., M.Sc.
Threlfall, H., M.Sc.Tech., A.R.C.S.I.
Bevan, T., M.Sc.Tech.
Carrington, H., B.Sc., M.Sc.Tech., A.M.I.M.E.

Engineering, Sanitary [Lectr.
Radcliffe, J., M.Sc.Tech , F.R.Met.S., F.R.San.I.
Coleman, G. S., D.Sc. Lectr

Languages (Modern)
Kirk, A., M.A. Camb. Lectr.

Mathematics
Prescott, J., M.A., D.Sc. Lectr.
Bowman, F., M.A. Camb., M.Sc Tech. Lectr.
Mordell, L. J., B.A. Camb. Lectr.
Barratt, W. S., A.R.C.S.I., A.I.C. Asst. Lectr.

Metallurgy & Assaying [Lectr.
Rhead, E. L., M.Sc.Tech., F.I.C.
Waters, F. W., A.M.C.T., A.I.C. Demr.

Photographic Tech. [Lectr.
Gamble, C. W., O.B.E., M.Sc.Tech.
Fishenden, R. B., M.Sc.Tech. Lectr. (Engraving & Printing).

Physics [Lectr.
Gee, W. W. Haldane, B.Sc. Lond., M.Sc.Tech., A.M.I.E.E.
Ferguson, A., D.Sc. Lond., M.A. Wales Lectr.
Adamson, A., M.Sc.Tech., A.R.C.S. Asst. Lectr.
Anderson, W., B.Sc. Glas. ,, ,,

Textile Industries
Turner, A. J., M.A. Camb., B.Sc. Lond. Prof.
Myers, W., M.Sc.Tech. Lectr.
Winterbottom, J., M.Sc.Tech. Asst. Lectr. & Demr.
Brookes, A. E. G. (Design) Lectr.
Hanton, W. A. (T. Engin.) Lectr.
Dust, Emily (Design) Asst. Lectr.
Oiserman, C., M.Sc.Tech. Asst. Demr.

ASSOCIATED COLLEGES

THE COLLEGE OF TECHNOLOGY originated in the Mechanics Institution, founded in 1824, and developed between 1879 and 1912 under the direction of J. H. Reynolds as the Technical School (1883) and Municipal School of Technology (1901). In 1903 were completed, with the help of benefactions from the estate of Sir Joseph Whitworth, buildings covering 7300 sq. yards in the centre of the city and worth with their equipment £400,000. It became connected with the Univ. of Manchester in 1905 through the constitution of a Faculty of Technology, the greater part of the work of which is conducted in the College, whose Principal is Dean of the Faculty.

COLLEGES recognized for External Lectures in Theology :

BAPTIST COLLEGE, EGERTON HALL, HARTLEY PRIMITIVE METHODIST COLLEGE, MORAVIAN COLLEGE, Fairfield, UNITARIAN HOME MISSIONARY

COLLEGE, and UNITED METHODIST COLLEGE at Manchester; LANCASHIRE INDEPENDENT COLLEGE, Whalley Range; WESLEYAN COLLEGE, Didsbury.

Recognized for instruction in Maths., Physics, Chem., and Biol. up to Interm. standard for B.Sc. and B.Sc. Tech.: the HARRIS INSTITUTE, Preston.

For third year of B.Sc. Tech. course in Mining: the CAMBORNE SCHOOL OF METALLIFEROUS MINING.

GENERAL INFORMATION

Owens College, named after a Manchester merchant who bequeathed £96,000 for its foundation, was opened in 1851. The Manchester School of Medicine was united with it in 1872. The Charter of 1880 by which the Victoria Univ. was founded established a federal constitution and made Owens a constituent Coll. of the Univ. Subsequently Univ. Coll., Liverpool, and Yorkshire Coll., Leeds, were admitted as constituent Colls. A new Charter was issued on July 15, 1903, reconstituting the Univ. under the name of the Vict. Univ. of Manchester and freeing it from liability to admit or remain in association with any Coll. other than Owens, and on June 24, 1904, the Act for the incorporation of Owens Coll. with the Univ. was passed. The Univ. Press was established in 1902.

In 1905, on the establishment of the Faculty of Technology, the work of Univ. standard at the Municipal School (now College) of Tech. was included in the Univ.

Most of the buildings, arranged in two quadrangles, and erected from time to time during the past 50 years, are situate in the city. The athletic ground (13 acres) is at Fallowfield, about 1½ miles distant.

LIBRARIES. The main (Christie) library (over 160,000 vols.) includes the private collections of Profs. Freeman and Stanley Jevons and Dr. Christie. Scientific periodicals are taken in by the Univ. in co-operation with the Manchester Literary and Philosophical Society, so that between them all the most important are available for both. The Manchester Medical Society's Library (42,000) is housed in the Medical School, where it is available for students. The John Rylands (250,000) includes the Althorp Library and the Crawford collection of MSS. It contains one of the most important collections of early printed books in existence. The ancient Chetham Library (70,000) has valuable mediæval MSS. and printed books of seventeenth and eighteenth centuries. The Municipal Reference Library (194,000) is valuable for more recent books and periodicals.

LABORATORIES, ETC. Ample equipment for advanced study and research in all departments; special provision for Electro-Technics, Economic Zoology (including Agric. Entom.) and Botany, Radio-activity, Ionization of Gases, Pathology of Cancer. The Fielden School is organized mainly for demonstration, training, and research in Educn. The Manchester *Museum*, forming part of the Univ. buildings, and containing among other special depts. the Flinders Petrie Egyptol. Collection, is utilized for Univ. teaching in Zool., Bot., and Geol.; it is also used for systematic instruction of Elem. school children. Available for clinical instruction are 4 general *Hospitals*, 1 Dental and 7 other special hospls. including the Christie Cancer Pavilion. The Howard Estate *Observatory* in the Peak District is for investigation of the Upper Atmosphere.

FACULTIES. Arts; Science; Theology; Law; Medicine; Music; Commerce; Technology (provided by the Municipal College of Technology);

Education. *Departments*: Educn., Dent., Pharm., Pub. Health, and seven depts. of Technology (*see below*). There are Advisory Committees for Agric., Archit., Mining, Tech., Commerce, Theol., Pub. Health, Leg. Educn., and for Training Teachers of the Deaf.

DEGREE COURSES. 3 yrs. (graduates of other approved Univs., 2 yrs.)—B.A., B.Sc. (B.Sc. in Pub. Health, 2 yrs. subsequent to gradn. in Med.), LL.B., Mus.B., B.Com., B.D. (after Interm. courses in Arts), B.Sc.Tech.; 5 yrs.—M.B., Ch.B., B.D.S. The B.Com. course can be completed by attendance on evening lectures.

Honours students of French may be permitted to count attendance during 1 summer term (last but one) at Caen as equivalent to attendance at Manc.

Minimum attendance in the Univ. for graduation—2 yrs. Minimum attendance for Bachelorship in 2 Faculties—5 yrs.

HIGHER DEGREES. Open to Bachelors of 1 yr. standing—M.A., M.Sc. (2 yrs. if graduates of other Faculties), Ch.M., M.D., M.D.S., M.Com., M.Sc.Tech.; 2 yrs.—M.Ed.; 4 yrs.—Litt.D., D.Sc., LL.D., Mus.D., D.D.

Open to graduates of other approved Univs. through research in Manc. during 2 yrs. (non-graduates 3 yrs.)—M.A., M.Sc., M.Sc.Tech., M.Ed. (not open to non-graduates). Graduates of other approved Univs. of 4 yrs.' (D.D. 6 yrs.) standing who have obtained the degree of Master or one substantially equivalent thereto and spent 2 yrs. in study or research in Manc. may qualify for the Litt.D., D.Sc., D.D.

The Ph.D. differs from the Litt.D. and D.Sc. in requiring a definite course of study, and is of a lower standard though higher than the M.A., M.Sc., and M.Sc.Tech. (v. p. 10).

DIPLOMAS. Geog. (grads.), 1 yr. course; D.V.S.M., open to M.R.C.V.S. only, 6 mos.; Psych. Med. 1 yr., including 2 terms at the Univ.; D.P.H. 9 mos.; Teacher's (grads.) 1 yr.

CERTIFICATES. Engin., 3 yrs. course; Applied Chem., 3 yrs; Mining; Factory or School Hygiene (subsequent to obtaining D.P.H.); L.D.S., 4 yrs. Higher Commercial, 2 yrs. (grads. 1 yr.); Theol., 3 yrs.; Biblical Knowledge; Tech. (Assoc. Coll. Tech.), 3 yrs.; Tech. (Distinction), 4 yrs.; Photog. Tech., 2 yrs.

Certif. in Mining and the B.Sc.Tech. in Mining are accepted by Govt. in lieu of 2 out of 5 yrs.' practical experience for Mine Manager's Certif.

SPECIAL COURSES on Tuberculosis for Med. and Vet. practrs.

SCHOLARSHIPS, ETC., FOR GRADUATES. A considerable number are offered every year by the Univ., most of them reserved for its own graduates but some —in Chemistry, £100; Economics, £70; Engineering, two of £200 each; Diseases of Children, £100; Physics, £125—are open to foreign students; others—in Industry and Commerce from £80 to £250 (travelling); History, £50—are open to British subjects who have graduated at other Univs. Honorary Research Fellowships and Research Studentships, entitling the holders to the use of facilities for research either free or at greatly reduced fees, are also awarded.

FEES. Matricn., £2. Tuition, per session, including Students' Union and Athletic Union fees: for B.A. course, 25 gs. (Hons. in Archit., 30 gs.); B.Sc., 30 to 40 gs. (Hons. in Maths., 25 gs.); M.B., Ch.B. (5 sessions), 135 gs., *plus* Hospl. fees, 60 gs.; LL.B. (3 sessions), 34 gs.; B.D., 13 gs.; B.Com., 15 gs.;

Mus.B., 7 gs.; B.D.S., 90 gs., *plus* Hospl. fees, 175 gs.; L.D.S., 80 gs., *plus* Hospl. fees, 135 gs. (35 gs. if approved instrn. recd. from regd. dentist); Teachers' Dipl., 25 gs. Examn. fees: Med., 32 gs., others (Interm. and Final) for first degrees about 6 gs. (B.Sc., 4 to 5 gs.). Graduation fees, 8 gs. (Doctorate 15 gs., Ph.D. £5).

Research fees, 5 gs. per session in Arts, Theol., and Educn.; higher fees for other science students.

HOSTELS. For men: Hulme Hall (Warden), £90 per session; Dalton Hall (Principal), £108; St. Anselm's Hall (Warden), £90. For women (122): Ashburne Hall (Warden), 56 to 66 gs.; Langdale Hall (Warden), chiefly for women training students, whose fees are £32, private students, £60. Special hostel for students in training as teachers of the deaf. Private lodgings with board obtainable.

INDIAN STUDENTS. Adviser—J. Moir, M.A., Coll. of Technology.

PERIODICAL PUBLICATIONS. *Calendar* (Sept.), 2s. 6d.; *Prospectus of Advanced Studies*; *Examn. Papers*, 6d. to 1s. 6d. a set, by Faculties; *The French Quarterly*, 3s.; *Bulletin of John Rylands Library*; *Journal*, 1s. quarterly; *Lancs. and Cheshire Naturalist*, monthly 9d.; *Journal of Manc. Egyptol. and Orient. Soc.*

THE YEAR 1919–20

BENEFACTIONS. At the close of 1919 a public appeal was issued for £500,000 for buildings for Chemistry, Medicine, Students' Hostels, etc., endowments for post-graduate work, training in social work, extension of Univ. teaching, new posts, studentships, equipment, etc. By the end of the summer term £200,000 had been raised. The *Manchester Guardian* issued a special Univ. Supplement in this connexion. Among the larger contributions were: Jesse Haworth, £10,000 for Museum; a group of firms, £10,000 towards a Chair of Colloid Chemistry; Lady Royds, £6000 for Scholp. in Chem. Among other benefactions were: W. Kirtley Bequest, £400 for Mech. Drawing Scholp.; Alex. Muir Estate, £1130 for Historical Research Library; C. Roskill, £120 for Scholps. in Archit.; Univ. of Paris War Memorial plaque; Manc. Royal Infirmary Library (on permanent loan); Carnegie U.K. Trust, £2500 for Library for Deaf Educn.; County Borough grants increased from £300 to £500 and from £100 to £400.

NEW BUILDINGS, HOSTELS, ETC. The Arts Building was opened on Nov. 7, 1919, by Lord Bryce. The Ellis Llwyd Jones hostel for women, though unfinished, was utilized to meet the great pressure for accommodation. For 25 places in hostels to be vacated at the close of the session there were 121 applicants. St. Anselm's was recognized as a hostel for men students.

NEW POSTS AND OTHER DEVELOPMENTS. Senior Pro-Vice-Chancellor, Faculty Tutors, and Secretaries of Faculties of Science and Arts, External Registrar, Advisors in Agric. Botany and Entomology; large increase in Pharmaceutical Students, including 67 ex-service men; training for Continuation School Teachers and Teachers of the Deaf; Scheme for Development of Athletic Grounds (recently restored by War Office).

DISTINGUISHED VISITORS. Earl Haig, Viscount Bryce, Chinese Educational Mission, Lord Robert Cecil. Prof. Cairns of Wisconsin lectured on "The Literary Indebtedness of America to England."

NUMBER OF STUDENTS. (1917–18 to 1919–20) Medical, 353, 538, 771, including women, 123, 146, 143; Technology, 129, 287, 561 (women, 9, 7, 12); all other Faculties, 611, 926, 1601 (women, 345, 373, 457). Net totals, excluding evening students of whom there were 394 in 1919–20, 1032, 1649, 2775. 1200 of the students in 1919–20 had been on active war service. Ages of men students in 1919–20: 16 to 18, 196; 18 to 20, 533; above 20, 1460; women, 31, 235, 320. Students reading for Ph.D., 26.

HONORARY DEGREES. Litt.D.—P. H. Wicksteed; LL.D.—Earl Haig, H. Brierley, Lord Robert Cecil, Sir J. E. Jones; D.Sc.—W. Sanday, A. N. Whitehead; D.D.—C. J. G. Montefiore, H. L. Le Châtelier; M.A.—W. Nelson.

OTHER DEGREES B.A, 68, including 43 women; B.Sc., 75 (26 women); B.Com., 14; B.D., 3; B.Sc.Tech., 57; M.B., Ch.B., 28 (11 women); B.Sc. in Pub. Health, 1; M.A., 14; M.Sc., 22; M.Com., 1; M.Ed., 7; M.Sc.Tech., 6; D.Sc., 6; Mus.D., 1; M.D., 14; D.D., 1.

RETIREMENTS. Prof. H. Lamb; Sir J. Petavel, apptd. Director of National Physical Lab., succeeded by A. H. Gibson from Dundee; Prof. C. A. Edwards, apptd. Prof. in Swansea Univ. College; G Hickling, apptd. Prof. in Armstrong College; A. G. Ogilvie, Reader in Geog., on accepting a post in America; E. J. Evans, apptd. Prof. in Swansea Univ. College; T. Graham Brown, apptd. Prof. in Cardiff.

DEATHS. H. Woolley, Treasurer; G. A. Wright, Prof. of Surgery; V. Kastner, Emer. Prof. of French.

EXTRA MURAL WORK. Tutorial classes, 19, including 16 in neighbouring towns; Bangor Summer School was attended by 108 students and 17 tutors; Univ. Extension Courses of Lectures included, in addition to the more usual subjects, "Plant Breeding," "Recent Advances in Psychology," and courses for officials of Girl Guides, Clubs, etc.

UNIVERSITY OF OXFORD

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PROCTORS—G. B. ALLEN, B.D., Pemb.; H. J. PATON, M.A. Qu.

ASSESSOR OF THE CHANCELLOR'S COURT—SIR E. J. TREVELYAN, D.C.L. All Souls.

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REGISTRAR—C. LEUDESDORF, M.A. Pembroke.

ASSISTANT REGISTRAR AND SECRETARY TO THE BOARDS OF FACULTIES—E. S. CRAIG, M.A. Magdalen.

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BRASENOSE ,,	*Principal*	C. H. SAMPSON, M.A.
CHRIST CHURCH	*Dean*	H. J. WHITE, D.D.
CORPUS CHRISTI COLLEGE	*President*	T. CASE, M.A.
EXETER ,,	*Rector*	L. R. FARNELL, M.A., D.Litt.
HERTFORD ,,	*Principal*	H. BOYD, D.D.
JESUS ,,	,,	E. G. HARDY, M.A., D.Litt.
LINCOLN ,,	*Rector*	J. A. R. MUNRO, M.A.
MAGDALEN ,,	*President*	Sir H. WARREN, K.C.V.O., M.A., Hon. D.C.L.
MERTON ,,	*Warden*	T. BOWMAN, M.A.
NEW ,,	,,	W. A. SPOONER, D.D.
ORIEL ,,	*Provost*	L. R. PHELPS, M.A.

PEMBROKE COLLEGE	*Master*	F. HOMES DUDDEN, D.D.
QUEEN'S ,,	*Provost*	J. R. MAGRATH, D.D.
ST. JOHN'S ,,	*President*	H. A. JAMES, D.D.
TRINITY ,,	,,	H. E. D. BLAKISTON, D.D.
UNIVERSITY ,,	*Master*	R. W. MACAN, M.A., D.Litt.
WADHAM ,,	*Warden*	J. WELLS, M.A.
WORCESTER ,,	*Provost*	F. J. LYS, M.A.
ST. EDMUND HALL	*Principal*	G. B. ALLEN, B.D.
KEBLE COLLEGE (New Foundation)	*Warden*	B. J. KIDD, D.D.

Censor of Non-Collegiate Students—J. B. BAKER, M.A.

PRIVATE HOSTELS

CAMPION HALL	*Licensed Master*	.....
ST. BENET'S HALL	,, ,,	P. J. MCCANN, M.A.

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SOMERVILLE COLLEGE	,,	Miss E. PENROSE, O.B.E., M.A.
ST. HUGH'S COLLEGE	,,	Miss E. F. JOURDAIN, M.A.
ST. HILDA'S HALL	,,	Miss WINIFRED H. MOBERLY, M.A.
SOCIETY OF OXFORD HOME STUDENTS	,,	Miss CHRISTINA M. BURROWS.

Secretary to the Delegates for the Supervision of Women Students: R. W. JEFFERY, M.A. Brasenose.

PROFESSORS, LECTURERS, ETC.

Agriculture v. p. 153

Anatomy, v. also Zoology
Thomson, A., M.A. Exe. Lee's Prof.
Dodds-Parker, A. P., B.M., M.A. Magd. (Applied A.) Lectr.
Laver, C. H., F.R.C.S. Edin. Asst.
Whitelocke, H. A., B.M., M.A. Ch.Ch. Asst.
Chance, Alice, M.B. R.U.I. Asst.

Anglo-Saxon
Craigie, W. A., M.A. Or. Rawlinson and Bosworth Prof.

Anthropology, Physical
Buxton, L. H. D., M.A. Exe. Demr.

Anthropology, Social [Reader.
Marett, R. R., M.A., D.Sc. Exe.

Archæology, v. also Orient. Langs. and Papyr.
Gardner, P., M.A., D.Litt. Linc. (Classical A. and Art) Linc. & Mert. Prof.
Evans, Sir Arthur J., M.A., D.Litt., B.N.C. (Prehist. A.) Prof.

Beazley, J. D., M.A. Ch.Ch. Lectr. (Gk. vases).

Aramaic v. Orient.

Art

Macdonald, A., Hon. M.A. Worc. (Drawing) Ruskin Master.
..... (Fine Art) Slade Prof.

Assyriology v. Orient. Langs.

Astronomy [Savilian Prof.
Turner, H. H., M.A., D.Sc. New
Rambaut, A. A., M.A. Qu. Radcliffe Observer.

Bio-Chemistry

Moore, B., M.A. Trin. Prof.

Biological Sciences, History of

Singer, G. J., D.M. Magd. Lectr.

Botany

Keeble, F. W., C.B.E., M.A. Magd. Sherardian Prof.
Church, A. H., M.A , D.Sc. Jes. Lectr. & Senr. Demr.

Celtic

..... Jesus Prof.

Chemistry [Waynflete Prof.
Perkin, W. H., M.A. Magd.
Hope, E., M.A. Magd. Demr.
Sidgwick, N. V., M.A. Linc. Demr.
Allott, E. N., B.A. Ball. Demr.
Barratt, S., B.A. Ball. Demr.
Plant, S. G. P., B.A., B.Sc. Magd. Demr.
Taylor, T. W. J., M.A. B.N.C. Demr.
Soddy, F., M.A. Ch.Ch. Lee's Prof.
Lambert, B., M.A. Mert. Aldrichian Demr.
Walden, A. F., M.A. New Demr.
Hartley, E. G. J., M.A. Ch.Ch. Demr.
Wilson, W. C., B.A. New Coll. Demr.
Peacock, A. C., B.A. Keb. Demr.
Bell, H. C., M.A., Jes. Demr.

Classics, v. also Arch.

Murray, Gilbert, M.A., D.Litt. Ch.Ch. (Greek) Reg. Prof.
Tod, M. N., M.A. Or. (Greek Epigraphy) Lectr.
Clark, A. C., M.A. C.C.C. (Latin) Corpus Prof.
Anderson, J. G. C., M.A. Ch.Ch. (Roman Epigraphy) Lectr.

Crystallography, Chem. [Lectr.
Barker, T. V., B.Sc., M.A. B.N.C.

Divinity v. Theology

Economics v. Pol. Econ.

Education [Reader.
Keatinge, M. W., M.A. Exe.
Hendy, F. J. R., M.A. Linc. Dir. of Training.

Egyptology v. Orient.

Embryology v. Zool.

Engineering Science, v. also Surv.

Jenkin, C. F., M.A. B.N.C. Prof.

English

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Smith, D. Nicol, M.A. Worc. Goldsmiths' Reader.
Simpson, P., M.A. Or. Lectr.
Seccombe, T., M. A. Ball. Lectr.
Onions, C. T., Hon. M.A. Lectr.

Forestry, v. also Surv.

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Hiley, W. E., M.A. Qu. (Diseases of Trees) Research Offr.

French

Rudler, G., Dr. ès L. Paris (Fr. Lit.), M.A. Worc. Foch Prof.
Berthon, H. E., M.V.O., M.A. Wadh. Taylorian Lectr.
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Pope, Mildred K., M.A. Som. Taylorian Lectr.

Genetics v. Zool.

Geography, v. also Surv.
Beckit, H. O., M.A. Ball. Reader.
MacMunn, Nora E., M.A Soc.O.H.S Demr.
Cossar, J., M.A. Asst.

Geology
Sollas, W. J., M.A. Univ. Prof.
Douglas, J. A., B.Sc., M.A. Keb. Demr.

Geometry [Savilian Prof.
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Greek, Byzantine and Modern, Lang. and Lit.
Dawkins, R. McG., M.A. Exe. Bywater & Sotheby Prof.

Hebrew v. Orient.

History, American
..... Harmsworth Prof.

History, Ancient, v. also Archæol.
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Myres, J. L., M.A. New Coll. Wykeham Prof.

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Wrong, E. M., M.A. Magd. Beit Lectr.

History, Eccl., v. Theology

History, Econ., v. Pol. Econ.

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Lovett. Sir H. V.. K.C.S.I.

History, Military, v. Milit.

History, Modern
Firth, C. H., M.A. Or. Reg. Prof.
Oman, Sir C. W. C., M.A. All S. Chichele Prof.
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..... (Hist. and Institns. U.S.A.) Lectr.

Italian
Foligno, C., M.A. Qu. Serena Prof.

Law v. *infra*

Logic [Wykeham Prof.
Joachim, H. H., M.A. New Coll.

Mathematics, Pure
Elliott, E. B., M.A. Magd. Waynflete Prof.

Mathematics, Applied
Pidduck, F. B., M.A. Qu. Lectr.

Medicine v. *infra*

Meteorology
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Military History [Chichele Prof.
Wilkinson, H. S., M.A. All S.

Mineralogy
Bowman, H. L., M.A., D.Sc. Magd. Waynflete Prof.

Music [Prof.
Allen, Sir H. P, M.A., D.Mus. New
Walker, E., M.A., D.Mus. Ball. Choragus (Asst. to Prof.).

Oriental Languages v. *infra*

Palæography
Lowe, E. A., Ph.D. Cornell and Munich Lectr.

Papyrology [Prof.
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Hunt, A. S., M.A., D.Litt. Qu. Prof.

Philology, Comparative
Wright, J., M.A. Exe. Prof.

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Griffith. I. O.. M.A. St. I. Demr.

Dobson, G. M. B., M.A. Camb. Demr.
Harcombe, S., Jes. Demr.

Philosophy, Mental, v. also Logic
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Philos., Natural [Sedleian Prof.
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Dreyer, N. B., Trin. Demr.

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Ker, W. P., M.A. All Souls Prof.

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Price, L. L., M.A. Or. (Ec. Hist.) Reader.

Political Theory and Institns.
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Religion, v. also Theology
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Romance Lang. [Taylorian Prof.
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Russian
Forbes, N., M.A. Ball. Reader.

Spanish [Taylorian Lectr.
de Arteaga y Pereira, Don Fernando, M.A. Worc.

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Merton, T. R., M.A., D.Sc., Ball.

Surveying (for Engin., Forestry, and Geog. Students)
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Thermodynamics [Reader
Egerton, A. C. G., B.Sc. Lond.

Zoology and Comp. Anat.
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Poulton, E. B., M.A., D.Sc. Jes. (Zool.) Hope Prof.
Goodrich, E. S., M.A. Mert. (Prof. of Comp. Embryology) Aldrichian Demr.
Gunther, R. W. T., M.A. Magd. Demr.
Huxley, J. S., M.A. New Demr.
Carr-Saunders, A., M.A. Magd. ,,
Speyer, E. R., M.A. New Demr
Huxley, J. S., M.A. New Coll (Genetics) Lectr.
Cunliffe, N., M.A. Camb. (Zool., Econ.) [Welch Lectr

Law

Civil [Reg. Prof.
De Zulueta, F., M.A., D.C.L. All S.

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Hazel, A. E. W., C.B.E., B.C.L., M.A. Jes. Lectr.

English
Geldart, W. M., C.B.E., B.C.L., M.A. All S. Vinerian Prof.
Holdsworth, W. S., D.C.L. St. J. All Souls Reader.

Indian [Reader.
Trevelyan, Sir E. J., D.C.L. All S.

Internat., and Diplomacy
Richards, Sir H. Erle, K.C.S.I., B.C.L., M.A. All S. Chichele Prof.

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Archibald, J. G., M.A. All S. Lectr.

Jurisprudence
Vinogradoff, Sir Paul, M.A., Hon. D.C.L., C.C.C. Corpus Prof.

Roman
Jolowicz, H. F., B.A., LL.B Camb., All Souls Reader.

Roman-Dutch
Lee, R. W., D.C.L. Ball. Prof

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Anatomy, Morbid (for Anat. v. *supra*)
Gibson, A. G., D.M. Ch.Ch. Lectr.

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Surgery
Dodds-Parker, A. P., B.M., M.A. Magd. Litchfield Lectr.

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Margoliouth, D. S., M.A., D.Litt. New Laudian Prof.

Aramaic [Lectr.
Stenning, J. F., C.B., M.A. Wadh.

Assyriology
Langdon, S., M.A. Jes. Prof. & Shillito Reader.

Bengali
Walsh, E. H. C., C.S.I., M.A. Lectr.

Burmese
Bridges, J. E., M.A. Lectr.

Chinese
Soothill, W. E., M.A. Trin. Prof.

Egyptology
Griffith, F. L., M.A. Qu. Reader.

Hebrew [Reg. Prof.
Cooke, G. A., D.D. Ch.Ch.

Hindustani
Dewhurst, R. P., M.A. Ball. Lectr.

Marathi
Jopp, C. H. K., M.A. New Lectr.

Persian
Levy, Capt. R., M.A. Jes. Lectr.

Sanskrit [Boden Prof.
Macdonell, A. A., M.A. Ball.

Tamil and Telugu
Pathy, C. S. K , M.A. Edin. Lectr.

Rural Economy

[Prof.
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Doyne, H. C., M.A. Trin. Demr.

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Peel, W. R., M.A. Camb. Lectr.

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Morison, C. G. T., M.A. Ball.

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Ashby, A. W., Dipl. Econ. Lectr.

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Lennard, R. V., M.A. Wadh. Lectr.

Agr. Law
Hilliard, E., M.A. Ball. Lectr.

Economic Zoology
Cunliffe, N., M.A. Camb.
Christopher Welch Lectr.

Estate Management
Orwin, C. S., M.A. Ball. Lectr.
Thring, D. T., Hon. M.A. Mert. Lectr.

Theology

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Bate, H. N., M.A. Magd.

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Headlam, A. C., D.D. Ch.Ch.
Lock, W., D.D. Keb. Margaret Prof.

Eccles. History [Reg. Prof.
Watson, E. W., D.D. Ch.Ch.

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Turner, C. H., M.A. Magd.

Interpretation of Holy Script.
Burney, C. F., M.A., D.Litt. Or. Oriel Prof.

Liturgiology [Lectr.
Brightman, F. E., M.A. Magd.

Pastoral Theology [Reg. Prof.
Ottley, R. L., D.D. Ch.Ch.

Philos of Christian Religion
Webb, C. C. J., M.A. Oriel Prof.

Septuagint [Grinfield Lectr.
Gray, G.B., M A., D.Litt. Magd.

THE COLLEGES

ALL SOULS COLLEGE. Founded 1437. Warden—F. W. Pember, D.C.L.

Fellows: Abel-Smith, L. R., M.A.; Adams, W. G. S., M.A., Prof. of Pol. Theory, etc.; Archibald, J. G., M.A.,‡ Private Internat. Law; Brand, Hon. R. H., M.A.; Bridges, E. E., M.A.; Cholmondeley, F. G., M.A.; Corbett, P. E., B.A.; Coupland, R., M.A., Prof. of Col. History; Craster, H. H. E., M.A.; Dawson, G. G., M.A., Estates Bursar; de Zulueta, F, D.C.L., Reg. Prof. of Civil Law; Dibblee, G. B., M.A., Dom Bursar; Dicey, A. V., M.A., B.C.L., Hon. D.C.L.; Edgeworth, F. Y., M.A., Prof. of Pol. Econ; Egerton, H. E., M.A.; Faber, G. C., M.A.; Geldart, W. M., M.A., B C.L., Vinerian Prof. of Engl. Law; Goudy, H., D.C.L.; Holland, Sir T. E., D.C.L., F.B.A.; Jacob, E. F., M.A.; Johnson, A. H., M.A.; Ker, W. P., M.A., Prof. of Poetry; Lang, Rt. Hon. and Most Rev. C. G., M.A., Hon. D.D.; Lawrence, T. E., B.A.; Lucas, Sir C., K.C.B., K.C.M.G., M.A.; Oman, Sir C. W. C., M.A., Librarian, Prof. of Mod. Hist.; Pollard, A. F., M.A.; Rawson, S. W., M.A.; Richards, Sir H. Erle, M.A., B.C.L., K.C., Chich. Prof. of Internat. Law; Robertson, C. G., M.A.; Simon, Rt. Hon. Sir John A., M.A.; Somervell, D. B., M.A.; Sumner, B. H., M.A.; Trevelyan, Sir Ernest J., D.C.L., Reader in Ind. Law; Wilkinson, H. Spenser, M.A., Chich. Prof. of Milit. Hist.; Williams, L. F. R., M.A., B.Litt.; Woodward, E. L., M.A.

BALLIOL COLLEGE. Founded 1263–1268. *Master*—A. L. Smith, M.A., Jowett Fellow.

Fellows: Bailey, C., M.A., Jowett Fellow, *Classical* * and Tutor for admissions; Bell, K. N., M.A., Junr. Dean, *Mod. Hist.* *; Davis, H. W. C., M.A., *Mod. Hist.* *; Gibbon, H. H., M.A., Chaplain, Catech. Lectr.; Hartley, H. B., M.A., *Science,* *‡ *Phys. Chem.*; Hilliard, E., M.A., B.C.L., Senior Bursar, *Law* *; Hinshelwood, C. N., B.A., ‡ *Chem.*; Lindsay, A. D., M.A., *Classical,* *‡ *Philos.*; Macdonell, A. A., M.A., Prof. of Sansk.; Macgregor, D. C., M.A., *Anc. Hist.* *; Merton, T. R., M.A., D.Sc., Prof. of Spectroscopy; Newman, W. L., M.A., Hon. D.Litt.; Pickard-Cambridge, A. W., M.A., Jowett Fellow, *Classical,* *‡ *Greek*, Organist; Ridley, M. R., M.A., Chaplain, *Engl. Lit.* *;

* Tutor. ‡ Lecturer.

Stone, C. G., M.A., *Hist.**; Tawney, R. H., B.A., ‡ *Econ.*; Urquhart, F. F., M.A., Senr. Dean, *Mod. Hist.**

Other Lectrs. etc.: Russell, J. W., M.A., *Maths.**; Todd, J. A., B.L. Glas., ‡ *Econ.*; Walker, E., D.Mus., M.A., Dir. of Music; Priestley, J. G., D.M. Ch. Ch., ‡ *Physiol.*; Namier, L. B., M.A., ‡ *Mod. Hist.*; Duke, A. C. H., C.M.G., Dom. Bursar.

BRASENOSE COLLEGE. Founded 1509. Principal—Sampson, C. H., M.A.

Fellows: Barker, T. V., M.A., B.Sc.; Evans, Sir A. J., D.Litt, F.R.S., Prof. of Archæol.; Fox, H. F., M.A., *Classics* *; Griffith, I. O., M.A., ‡ Nat. Sc.; Heberden, C. B., M.A., Hon. D.C.L.; * Holroyd, M, M.A.; Jenkin, C F., M.A., Prof. of Engin.; Jenkinson, A. J., M.A., *Litt. Hum.**; Jones, H. S., M.A., D.Litt., Prof. of Anc. Hist.; Stallybrass, W. T. S., M.A., Vice-Principal, Junior Dean, ‡ *Law*; Stocker, W. N., M.A., ‡ *Nat. Sc.*; Taylor, T. W. J., M.A., ‡ Nat. Sc.; Wace, H. C., M.A., *Theol., Classics*,*; Wakeling, G. H., M.A., Senr. Tutor, Senr. Dean, *Mod. Hist.**

Other Lectrs.: Jeffery, R. W., M.A., *Modern History.*

CHRIST CHURCH. Founded 1546. Dean—H. J. White, D.D.

Canons: Cooke, G. A., D.D., Reg. Prof. of Hebrew; Headlam, A. C., D.D., Reg. Prof. of Div.; Lock, W., D.D., Prof. of Div.; Ottley, R. L., D D., Reg. Prof. of Past. Theol.; Shaw, Rt. Rev. and Ven. E. D., D.D., Archdeacon of Oxford; Watson, E. W., D.D., Reg. Prof. of Eccles. Hist.

Students (equivalent to Fellows): Anderson, J. G. C., M.A., * *Classics*; Barrington-Ward, J. G., M.A., * *Classics*; Baynes, R. E., M.A., *; Beazley, J. D., M.A., * *Classics*; Blunt, H. W., M.A., * *Classics*; Carter, A. T., D.C.L., * *Law*; Chaundy, T. W., M.A., * *Maths.*; Dundas, R. H., M.A., Censor, * *Classics*; Feiling, K. G., M.A., * *History*; Hassall, A., M.A., * *Hist.*; Garrod, Sir A. E., K.C.M.G., D.M., F.R.S., * Reg. Prof. of Med.; Hutchinson, G. T., M.A., Treasurer; Masterman, J. C., M.A., Censor, * *Hist.*; Murray, Gilbert, M.A., D.Litt. (Reg. Prof of *Greek*); Murray, J., M.A., * *Classics*; Owen, S. G., M.A., * *Classics*; Payne-Smith, W. H., M.A.; Rawlinson, A. E. J., M.A., *Theol.* *; Slessor, Major A. K., M.A., Steward; Soddy, F., M.A., F.R.S., * Prof. of Chem.; Thomson, A., M.A., * Prof. of Anat.

Lectrs.: Heaton, T. B., D.M., * M.A., Lee's Reader in *Anat.*; Russell, A. S., M.A., Lee's Reader in *Chem.*

CORPUS CHRISTI COLLEGE. Founded 1516. President—T. Case, M.A.

Fellows: Clark, A. C., M.A. (Corpus Prof. of *Latin*); Grundy, G. B., M.A., D.Litt. *; Little, W., M.A.; Livingstone, R. W., M.A., Tutor,* Librarian; Mowat, R. B., M.A., Asst. Tutor ‡; Oddie, J. W., M.A.; Phelps, W., M.A., Dean, Asst. Tutor ‡; Plummer, C., M.A.; Schiller, F. C. S., M.A., D.Sc. *, Vice-Pres.; Stewart, J. A., M.A., Prof. of Moral Philos.; Vinogradoff, Sir Paul, M.A., Corpus Prof. of Jurispr.

Other Lectrs.: Miles, Sir J. C., M.A., Mert., *Jurispr.*; Lambert, B., M.A. Mert., *Nat. Science*; Lightfoot, R. H., M.A., *Theol.*; Pidduck, F. B., M.A., *Maths., Physics, Engin.*

Bursar: Lightfoot, H. Le B., M.A.

EXETER COLLEGE. Founded 1314. Rector—L. R. Farnell, D.Litt., also *Classical* Lectr., Vice-Chancellor.

Fellows: Atkinson, C. T., M.A., ‡ *Modern Hist.*; Barber, E. A., M.A.; Sub-Rector, * ‡ *Classics*; Cheshire, G. C., B.C.L., M.A., Bursar, ‡ *Law*; Henderson, B. W., M.A., D.Litt., Senior Tutor, * *Anc. Hist.*; Marett, R. R.,

* Tutor. ‡ Lecturer.

M.A., D.Sc., *, Dean, ‡ *Philos.*; Raikes, H. R., M.A., * *Nat. Sc.*; Williams, N. P., M.A., Chaplain Fellow, ‡ *Theol.*

Other Lectrs.: Church, A. H., M.A., Jes., *Bot.*; Griffith, I. O., M.A., St. J., *Physics*; Loewe, H. M. J., M.A., *Hebrew*; Seccombe, T., M.A., Ball., *Engl.*; Stampa, L., M.A., Magd., *Modern Hist.*

HERTFORD COLLEGE. Founded 1874. Principal—H. Boyd, D.D.

Fellows: Ashmole, B., B.A.; Campbell, J. E., M.A., F.R.S., * ‡ *Maths.*, Vice-Principal; Campbell, J. McL., M.A., ‡ Chaplain; Cecil, Rt Hon. Lord Hugh, M.A., M.P; Cruttwell, C. R. M. F., M.A., Dean, * ‡ *Mod. Hist.*; Denniston, J. D., M.A., Librarian, * ‡ *Classics*; Haselfoot, C. E., M.A., Bursar, * ‡ *Nat. Sc.*; Jackson, C. N., M.A.; Jeans, G. E., M.A; Lockhart, J. S., M.A.; Murphy, N. R., M.A., ‡ *Philos.*; Whatley, N., M.A., Senr. Tutor, * ‡ *Anc. Hist.*

JESUS COLLEGE. Founded 1571. Principal—E. G. Hardy, M.A., D.Litt.

Fellows: Chapman, D. L., M.A., F.R.S., Asst. Tutor, *Nat. Sc.*, Junr. Bursar; de Winton, Ven. F. H., M.A.; Dodd, P. W., M.A., Asst. Tutor, *Litt. Hum.*; Edwards, J. Goronwy, M.A., Librarian, Asst. Tutor, *Mod. Hist.*; Genner, E. E., M.A., Senr. Tutor, *Classics*; George, H. J., M.A., Research Fellow, ‡ *Chem.*; Hardy, E. G., M.A., D.Litt., Vice-Principal, * *Litt. Hum.*; Hazel, A. E. W., M.A, B.C.L., Senr. Bursar, Dean, Asst. Tutor, ‡ *Law*; Poulton, E. B., M.A., F.R.S., Prof. of Zool.

Other Lectrs., etc.: Hodgkinson, J., M.A., Mert. Asst. Tutor, *Maths.*; Simpson, D. C., B.D., Keb., ‡ *Theol.*; Simpson, P., M.A., Or., ‡ *Engl. Lang. and Lit.*; Stenning, J. F., M.A., Wad., ‡ *Orient. Langs.*; Waters, E. G. R., M.A., Keb, ‡ *French*; Wickremasinghe, M. de Z., Hon. M.A., ‡ *Pali* and *Prakrit.*

LINCOLN COLLEGE. Founded 1427. Rector—J. A. R. Munro, M.A.,‡ *Anc. Hist.*

Fellows: Carlyle, E. I., M.A., Bursar, ‡ *Modern Hist.*; Dreyer, G., M.A. (Prof. of *Path.*); Fowler, W. W., M.A.,; Gardner, P., M.A., D.Litt., Prof. of Class. Archæol. and Art; Lightfoot, R. H., Chaplain, ‡ *Theol.*; Marchant, E. C., M.A., * Sub-Rector, ‡ *Classics*; Moberly, W. H., M.A., Dean, Dean of Degrees, * ‡ *Philos.*; Sidgwick, N. V., M.A., ‡ *Nat. Sc.*

MAGDALEN COLLEGE. Founded 1458. President — Sir H. Warren, K.C.V.O., M.A., Hon. D.C.L.

Fellows: Baker, G. E., M.A.; Bell, C. F., M.A.; Benecke, P. V. M, M.A., * *Classics*, Junr. Dean of Arts; Brightman, F. E., M.A., * *Theol.*, Senr. Dean of Arts; Bowman, H. L., D.Sc., Prof. of Mineralogy, Vice-President; Bradley, H., M.A.; Carter, C. R., M.A., Estates Bursar; Coolidge, W. A. B., M.A.; Cowley, A. E., M.A., D.Litt.; Craig, E. S., M.A.; Driver, G. R., M.A., ‡ *Classics*; Elliott, E. B., M.A., F.R.S., Prof. of Maths.; Gunther, R. W. T., M.A., * *Nat. Sc.*; Hodgson, L., M.A., Dean of *Div.*, Sec. to Tut. Board; Hogarth, D. G., M.A., D.Litt.; Hope, E., M.A., **Chem.*; Keeble, F.W., Sc.D., F.R.S., Prof. of Botany; Kirk, K. E., M.A.; Lee, S. G., M.A., * *Hist.*; Manley, J. J., M.A.; Miers, Sir H. A., M.A., D.Sc., F.R.S.; Pedder, A. L., M.A., * *Maths.* and *Physics*; Perkin, W. H., M.A., F.R.S., Prof. of Chem.; Poole, R. L., M.A.; Salter, H. E., M.A.; Segar, R., B.A., * *Law*; Sherrington, C. S., M.A., F.R.S., Prof. of Physiol.; Smith, J. A., M.A., Prof. of Philos.; Thomson, J. M., M.A., *Hist.*, Home Bursar, *; Turner, C. H., M.A., Prof. of Exegesis; Webb, C. C. J., M.A., * *Classics*, Prof. of Philos. of Christian Religion; Wilson, H. A., M.A.; Wrong, E. M., M.A.

Other Lectr.: Kemshead, C. T. T., M.A., *Modern Subjects.*

* Tutor. ‡ Lecturer.

MERTON COLLEGE. Founded 1264. Warden—T. Bowman, M.A.
Fellows: Allen, P. S., M.A., Sub-Warden, Librarian, and Dean; Bourne, G. C., M.A., D.Sc., F.R.S., Prof. of Zool., etc.; Bradley, F. H., M.A.; Dixon, A. L., M.A., F.R.S., * *Maths.*; Fyfe, W. H., M.A.; Garrod, H. W., M.A., *Class.* *; Gill, W. B., M.A., B.Sc., Principal of Postmrs.; Goodrich, E. S., M.A., F.R.S.; Green, F. W., M.A., * *Theol.*, ‡ *Div.*; Hodgkinson, J., M.A.; How, W. W., M.A., Sen. Tutor, *Class.* and *Anc. Hist.* *; Lambert, B., M.A., * *Nat. Sc.*; Marsh, J. E., M.A., F.R.S.; Miles, Sir J. C., M.A., B.C.L., *Law*, Dom. Bursar; Mure, G. R. G., M.A.; Raleigh, Sir W. A., M.A., Prof. of Engl. Lit.; Wyld, H. C. K., B.Litt., M.A., Prof. of Engl. Lang. and Lit.
Other Lectr.: Johnson, A. H., M.A., All S., *Modern Hist.*

NEW COLLEGE. Founded 1379. Warden—W. A. Spooner, D.D.
Fellows: Allen, Sir H. P., M A., D.Mus., Prof. of Music; Casson, S., M.A.; Clay, H., M.A.; Courtney, W. L., M.A.; Fisher, Rt. Hon. H. A. L., M.A.; Haldane, J. S., M.A., F.R.S.; Haldane, J. B. S., M.A., ‡ *Zool.* and *Physiol.*; Hardy, G. H., M.A., F.R.S., Prof. of Geom.; Hayes, E. H., M.A.; Henderson, H. L., M.A., Dean, Dean of Arts, * *Classics*; Huxley, J. S., M.A., ‡ *Zool.*; Joachim, H. H., M.A., Prof. of Logic; Joseph, H. W. B., M.A., * *Philos.* and *Classics*; Legg, L. G. W., M.A., Junr Bursar, * *Modern Hist*; Margoliouth, D. S., M.A., D.Litt., Prof. of Arabic; Matheson, P. E., M.A., * *Anc. Hist.* and *Classics*; Milner, Rt. Hon. A., Viscount, M.A., Hon. D.C.L.; Moyle, J. B., D.C.L., Senr. Bursar; Myres, J. L., M.A., Libn., Prof. of Anc. Hist.; Ogg, D., M.A., * *Modern Hist.*; Poole, E. G. C., M.A., * *Maths.*; Prickard, A. O., M.A.; Radcliffe, G. R. Y., M.A., * *Law*; Rowden, F., M.A.; Schuster, E. H. J., M.A., D.Sc.; Smith, A. H., M.A., C.B.E., * *Litt. Hum.*, Precentor, Dean of Div.; Townsend, J. S. E., M.A., F.R.S., Prof. of Physics; Turner, H. H., M.A., D.Sc., F.R.S., Prof. of Astron.; Walden, A. F., M.A., * *Chem.*

ORIEL COLLEGE. Founded 1326. Provost—L. R. Phelps, M.A.
Fellows: Burney, C. F., M.A., D.Litt., Prof. of Interpret. of Holy Script.; Clark, G. N., M.A., ‡ *Modern Hist.*; Craigie, W. A., M.A., Prof. of Anglo-Saxon; Firth, C. H., M.A., Prof. of Mod. Hist.; Graham, E., M.A., Dean; Hall, F. H., M.A.; Hammick, D. L., B.A., ‡ *Nat. Sc.*; Lewis, W. J., M.A., F.R.S.; Lyon, P. C., M.A., C.S.I., Treasurer; Price, L. L. F. R., M.A.; Richards, G. C., M.A., *; Ross, W. D., M.A., *; Tod, M. N., M.A., *.
Other Lectrs.: Dixon, A. L., M.A., *Maths.*; Montague, F. C., M.A., *Modern Hist.*; Simpson, P., M.A., *Engl. Lit.*; Stallybrass, W. T. S., M.A., *Law.*

PEMBROKE COLLEGE. Founded 1624. Master—F. H. Dudden, D.D.
Fellows: Allen, G. B., B.D., Dean, * *Classics*, *Theol.*; Burrowes, A.B., B.A.; Collingwood, R. G., M.A., ‡ *Classics* and *Philos.*; Drake, H. L., M.A., Senr. Tutor, * *Classics*; Leudesdorf, C., M.A., Vicegerent; Ramsden, W., D.M.; Wood, G., M.A., Bursar and Librarian.
Other Lectrs.: Berthon, H. E., M.A., Wad., *French*; Brett-Smith, H. F. B., M.A., *Engl.*; Chapman, D. L., M.A., Jes., F.R.S., *Nat. Sc.*; Last, H. M., B.A., St. J., *Anc. Hist.*; Penson, Sir T. H., M.A., Worc., *Modern Hist.*

THE QUEEN'S COLLEGE. Founded 1340. Provost—J. R. Magrath, D.D.
Fellows: Allen, T. W., M.A., * *Classics*; Armstrong, E., M.A., Pro-Provost (acting Head), ‡ Modern Hist.; Bell, J., M.A., ‡ *Classics*; Chattaway, F. D., M.A., Ph.D., F.R.S., ‡ *Chem.*; Cronshaw, G. B., M.A., Bursar, ‡ *Nat. Science*; Elton, G., M.A., ‡ *Modern Hist.*; Grenfell, B. P., M.A., D.Litt., Prof. of Papyrol.; Hodgkin, R. H., M.A., * *Mod. Hist.*; Hunt, A. S.,

* Tutor. ‡ Lecturer.

M.A., D.Litt. (Prof. of *Papyrol.*); Paton, H. J., M.A., Dean, ‡ *Philos.*; Pidduck, F. B., M.A.; Sayce, A. H., M.A., Hon. D.Litt.; Streeter, B. H., M.A., ‡ *Theol.*; Thompson, C. H., M.A., * *Maths.*; Walker, E. M., M.A., Senior Tutor, *Classics*.

Other Lectrs.: Berrisford, E. A., M.A., Chaplain, Nat. Science; Brett-Smith, H. F. B., M.A., *English*; Douglas, C. G., B.Sc., D.M., *Physiol.*; Forbes, N., M.A., *Russian*; Hazel, A. E. W., B.C.L., M.A., *Law*.

ST. JOHN'S COLLEGE. Founded 1555. President—H. A. James, D.D.

Fellows: Applebey, M. P., M.A., B.Sc., ‡ *Chem.*; Bidder, H. J., B.D.; Burney, C. F., D.Litt.; Dermer, E. C., B.D.; Douglas, C. G., B.Sc., D.M., * *Nat. Science*; Hall, F. W., M.A., * ‡ *Classics*; Hart-Synnot, R. V. O., O.B.E., B.Sc., Bursar; Holdsworth, W. S., D.C.L., ‡ *Jurispr.*; Hutton, Very Rev. W. H., D.D.; Last, H. M., B.A., ‡ *Anc. Hist.*; Poole, A. L., M.A., ‡ *Modern Hist.*; Powell, J. U., M.A., Senr. Tutor, ‡ *Classics*; Pullan, L., M.A., * ‡ *Theol.*; Somerville, W., D.Sc., M.A., Prof. of Rural Econ.; Stevenson, W. H., M.A., Vice-Pres., Sr. Dean of Arts, Libn.; Stocks, J. L., M.A., * ‡ *Philos.*; Troup, R. S., M.A., Prof. of Forestry.

Other Lectrs.: Berthon, H. E., M.A., Wad., *French*; Russell, J. W., M.A., Mert., *Maths.*; Simpson, P., M.A., Oriel, *Engl.*

TRINITY COLLEGE. Founded 1554–1555. President—H. E. D. Blakiston, D.D., ‡ *Classics* (acting Estates Bursar).

Fellows: Burroughs, E. A., M.A., ‡ *Divinity*, Chaplain; Higham, T. F., M.A., Dean, ‡ *Classics*; Landon, P. A., M.A., ‡ *Law*; Ogilvie, F. W., M.A., ‡ *Econ.*, Jr. Bursar; Patterson, M. W., M.A., * ‡ *Modern Hist.*; Prichard, H. A., M.A., ‡ *Philos.*; Weaver, J. R. H., M.A., ‡ *Modern Hist.*, Librarian.

Other Lectr.: Russell, J. W., M.A., Mert., *Maths.*

UNIVERSITY COLLEGE. Founded 1249. Master—R. W. Macan, M.A., D.Litt.

Fellows: Allen, C. K., M.A., Stowell Civil Law Fellow; Bourdillon, R. B., M.A., Prælector in *Chem*, Dean; Carritt, E. F., M.A., Prælector in *Logic*, Librarian; Emmet, C. W., B.D., Chaplain; Farquharson, Lt.-Col. A. S. L., C.B.E., M.A., * *Litt. Hum.*; Leys, K. K. M., M.A., Prælector in *Modern Hist.* *; Poynton, A. B., M.A., * *Classics*, Bursar; Sollas, W. J., M.A., F.R.S., Prof. of Geology; Stevenson, G. H., M.A., Prælector in *Anc. Hist.*; Walker, E. W. A., D.M., D.Sc., * *Nat. Sc.*

Lectrs. and Asst. Lectrs.: Allen, C. K., M.A., *Law*; Carlyle, A. J., M.A., D.Litt., *Econ.*; Douglas, J. A., B.Sc., M.A., Keb., *Geol.*; Johnson, A. H., M.A., *Modern Hist.*; Griffith, I. O., M.A., *Physics*; Morison, C. G. T., M.A., *Agric.*, etc.; Thomson, C. H., M.A., Qu., *Maths.*

WADHAM COLLEGE. Founded 1610. Warden—J. Wells, M.A.

Fellows: Brabant, F. H., M.A., ‡ *Philos.*; Dixey, F. A., D.M., F.R.S., Wills Medical Fellow, ‡ *Physiol.*, etc., Sub-Warden and Bursar; Jacks, M. L., M.A., * *Classics* and *Philos.*; Lennard, R. V., M.A., * *Hist.*; Lindemann, F. A., M.A., Prof. of Expl. Philos.; Stenning, J. F., C.B., M.A., Dean and Librarian, * ‡ *Div.*, *Hebrew*; Wade-Gery, H. T., M.A., * *Classics*, *Anc. Hist.*

Other Lectrs.: Segar, R., B.A., Magd., *Jurispr.*; Simpson, P., M.A. Or., *Engl. Lit.*

WORCESTER COLLEGE. Founded 1714. Provost and Senr. Bursar—F. J. Lys, M.A.

Fellows: Gerrans, H. T., M.A., Vice-Provost, ‡ *Maths.*; Pickard-Cam-

bridge, W. A., M.A., *; Roberts, P. E., M.A., * Junr. Bursar; Wilkinson, C. H., M.A., ‡ *Engl. Lit.*, Dean, Librarian.

Other Lectrs.: Lightfoot, R. H., M.A., Linc., *Theol.*; Marriott, J. A. R., M.A., M.P., *Mod. Hist.*; Penson, Sir T. H., M.A., *Econ.*

ST. EDMUND HALL. Founded 1269. Principal—G. B. Allen, B.D.

Staff: Brewis, G. R., M.A., Senr. Tutor; Emden, A. B., M.A., Vice-Principal, * Modern Hist.; Jones, G. B., B.A. Lond., Chaplain; Margoliouth, H. M., M.A., ‡ *Engl. Lang. and Lit.*; Simpson, D. C., M.A., ‡ *Theol., Hebrew.*

KEBLE COLLEGE. Founded 1870. Warden—B. J. Kidd, D.D.

Other Tutors: Cooper, H. B., M.A., *Classics*; Jackson, W. H., M.A., D.Sc., *Nat. Science*; Jolliffe, J. E. A., M.A., *Hist.*; Kirk, K. E., M.A., *Theol.*; Matheson, F. W., M.A., Dean of College, *Theol.*; Owen, A. S., M.A., *Classics*; Reade, W. H. V., M.A., *Litt. Hum.*; Simpson, D. C., B.D., *Theol.*; Woodward, E. Ll., M.A., *Hist.*; Gretton, R. H., M.A. Magd.

Lectrs.: Champernowne, F. G., M.A., Bursar, *Jurispr.*

NON-COLLEGIATE STUDENTS Censor—J. B. Baker, M.A., Non-Coll.

Tutors and Lecturers: The Censor, *Modern Hist.*; Carlyle, A. J., D.Litt., Univ., *Engl.*; Chattaway, F. D., M.A., F.R.S., Qu., *Chem.*; Cheshire, G. C., M.A., B.C.L., Exe., *Jurispr.*; Dixey, F. A., D.M., F.R.S., Wad., *Physiol.*; Garabedian, D., M.A., *French*; Graham, E., M.A., Oriel, *Theol.*; Jeffery, R. W., M.A., B.N.C., *Modern Hist.*; Kendrew, W. G., M.A., Non-Coll.; Nicholls, A. W., B.A., *Mod. Hist.*; Richards, G. C., M.A., Oriel, *Classics*; Thompson, C. H., M.A., Qu., *Maths.*; Underhill, G. E., M.A., Magd., *Litt. Hum.*; Whiston, J. R. H., M.A., Jes., *Chem.*

CAMPION HALL. Master—.....

ST. BENET'S HALL. Master—P. J. McCann, M.A.

* Tutor. ‡ Lecturer

Recognized Societies.

LADY MARGARET HALL, founded in 1878 and opened in 1879; constituted under a Deed of Trust in 1893, incorporated 1913. *Principal*—Miss H. Jex-Blake, M.A. Resident Tutors: Miss E. C. Lodge, M.A., Vice-Principal; Miss K. H. McCutcheon, M.A.; Miss J. Spens, M.A., D.Litt.; Miss H. C. Deneke, M.A.; Miss M. G. Skipworth, M.A. Librarian—Miss E. M. Jamison, M.A. Bursar and House Treasurer—Miss Lee Strathy, M.A.

The Hall is conducted on the principles of the Church of England, with provision for the liberty of members of other religious bodies.

SOMERVILLE COLLEGE, founded as Somerville Hall in 1879. In 1881 it was incorporated under the Companies Acts (1862–80), and in 1894 the style Somerville Hall was changed to Somerville Coll. *Principal*—Miss E. Penrose, M.A. *Vice-Principal*—Hon. Alice Bruce, M.A. *Tutors*—Mildred Pope, M.A.; Hilda Lorimer, M.A.; Helen Darbishire; Jane Kirkaldy, M.A.; Maude Clark, M.A.; Charlotte Young. *Lady Carlisle Research Fellow*—Mary Porter, B.Sc.; *Mary Somerville Research Fellow*—..... *Librarian*—Vera Farnell. *Bursar*—Beatrice Stonedale.

ST. HUGH'S COLLEGE, founded as St. Hugh's Hall, in 1886, was incorporated as St. Hugh's Coll. in 1911. *Principal*—Miss E. F. Jourdain, M.A.

Resident Tutors—Cecilia M. Ady, M.A.; Margaret R. R. Shaw, M.A.; Evelyn M. Spearing, M.A. 4 Non-resident Tutors. *House Bursar*—B. Ayre Bullen. *Librarian*—Joan Evans, B.Litt. *Secretary*—Kathleen I. Hind.

The College is conducted according to the principles of the Church of England.

ST. HILDA'S HALL, founded in 1893 by Miss Dorothea Beale, sometime Principal of Cheltenham Ladies' Coll. Admission (minimum age, 18) ordinarily by examn. Students are expected to read for an Honour School, a Certif. in Letters or in Science, or Univ. Dipl. *Principal*—Miss W. H. Moberly, M.A. *Tutors*: Miss Levett, M.A., Vice-Principal, Modern-Hist.; Miss M. Coate, M.A., Asst Hist. Tutor; Miss E. Rooke, English; Miss R. D. N. Warner, Asst. Engl. Tutor; Miss Keith, Classics. *House Bursar*—Miss Winslow. *Secy. and Librarian*—Miss J. C. Thornton, B.A.

SOCIETY OF OXFORD HOME-STUDENTS, founded in 1879. The present Governing Body is styled the Committee for Home-Students and is apptd. by the Univ. Delegacy for Women Students. *Principal*—Mrs. A. H. Johnson, M.A., 5 South Parks Road, Oxford. *Chairman of Committee*—Prof. W. M. Geldart, C.B.E., B.C.L., All Souls. There is a staff of 9 Tutors.

The students reside in their own homes or with relatives or in private families in Oxford or, occasionally, in lodgings

St. Frideswide's, Cherwell Edge is a hostel maintained by the Community of the Holy Child Jesus, and approved by the Univ. for the reception of Roman Cath. Home-Students.

GENERAL INFORMATION

CONSTITUTION. *Convocation*, consisting of all Masters of Arts and Doctors of the Faculties of Divinity, Civil Law, and Medicine who have their names on the Univ. books, has the power of confirming or rejecting (but not of amending) Statutes which have passed Congregation. It also transacts much of the ordinary business of the Univ. by means of "Decrees." It confers honorary degrees and also degrees granted by Decree or Diploma. It sanctions petitions to Parliament, authorizes the affixing of the Univ. seal when necessary, and its members elect the Univ. representatives in Parliament. But no proposals can be made to it which have not been sanctioned by the *Hebdomadal Council*, which consists of the Chancellor, Vice-Chancellor, immediate ex-Vice-Chancellor (for a certain period after the expiration of his term of office), and Proctors and 18 other members (Heads of Houses, Professors, etc.) elected by Congregation. This Council takes the initiative in all the legislation of the Univ., except what is proposed by the General Board of the Faculties. The *Congregation of the University* consists mainly of the teaching and administrative elements in the Univ. and Colleges. It has the power of adopting, rejecting, or amending legislation submitted by the Hebdomadal Council previously to its submission to Convocation. The *General Board of the Faculties* has power, after consultation, with the Board of the Faculty concerned, to draft and send to Congregation through the Hebdomadal Council any proposals on matters connected with studies and examns. which require to be dealt with by Statute.

The Chancellor, elected for life by Convocation, is a non-resident Officer. The executive power is chiefly in the hands of his Deputy, the Vice-Chancellor, who is annually nominated by him from among the Heads of Colleges, and the Proctors annually elected by the Colleges and Halls in rotation.

The Colleges are corporate bodies distinct from the Univ. They are not even, at all events directly, subject to regulations made by the Univ.; they manage their own property and elect their own Officers, and the Proctors have no power within their walls. In many matters, however, they and the Univ. recognize each other's regulations, and an intimate relation exists between them; the great majority of the members of the Univ. belong to the Colleges, and all who belong to the various Colleges are at the same time members of the Univ. Teaching is given partly by Univ. Profs., Readers, and Lectrs., partly by the more numerous body of College Tutors and Lectrs. Altogether the teaching staff numbers approximately 300.

FACULTIES. Arts; Natural Science; Theology; Law; Medicine. Music and Education are included in Arts; Rural Economy and Forestry in Nat Science.

ADMISSION to the Univ. ("Matriculation") is without respect of birth, age, nationality, or creed, and follows upon admission to a College or Hall or to the Society of Non-Coll. Students. No one can become a member of the Univ. unless he first becomes a member of one of these Societies. An application for admission must therefore be addressed, not to any officer of the Univ., but to the proper officer * of the Society to which admission is desired; it should be made, if possible, a year or more before residence is contemplated, especially if rooms within the College walls are desired.

Although the Univ. itself holds no Entrance examn., the Colls. and Halls and the Society of Non-Coll. Students require certain qualifications of character and intellectual attainment in which the passing of *Responsions* or some equivalent examn. is ordinarily included

TERMS. The Academical year, which begins in Oct. and ends in June, consists of 3 terms, each of some 8 weeks. Residence within the walls of a College or Hall, or in licensed lodgings,† during a certain number of terms, usually 9, and never less than 6, is a condition of admission to any degree except in Music. Full terms begin Oct. 16, 1921, Jan. 22, April 30, 1922.

INCORPORATION. Members of the Univs. of Cambridge and Dublin can be, under certain conditions, "incorporated" into this Univ., *i.e.* admitted to the same status and degree which they hold in their own Univ. Notice of intention to incorporate as an undergraduate must be sent to the Registrar through the Head of a College or the Censor of Non-Coll. Students. The privileges of incorporation as a graduate are limited to B.A., M.A., Litt.D., B.D., D.D., and D.Sc. of those Univs. Any applicant for incorporation must have kept by residence at his Univ. before taking his degree the same number of terms that he would have been required to keep at Oxford for the corresponding degree. While an undergraduate is allowed to incorporate as a matter of course, a graduate must first satisfy the Hebdomadal Council that there are adequate reasons.

DEGREES. B.A., M.A., B.Litt., D.Litt.; B.Sc., D.Sc.; D.Phil.; B.D., D.D.; B.C.L., D.C.L.; B.M., B.Ch., D.M., M.Ch.; B.Mus., D.Mus.

The degrees which are open to graduate students of other Univs. who are qualified for matricn. at Oxford are those of B.Litt., B.Sc., D.Phil., B.C.L., and B.D.

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* Balliol—The Tutor for Admissions; Hert. and Jes.—The Senior Tutor; Linc.—The Sub-Rector; Qu.—The Pro-Provost; Non.-Coll.—The Censor, Students' Delegacy; in other cases—The head of the Society (v. *supra*).

† In special circumstances leave to reside in a house which has not been licensed may sometimes be obtained.

ARTS. Examns. in Arts, more usually called "Schools," are sharply divided into Pass and Honour examns.; in the former there is but one standard, in the latter successful candidates are distributed into 3 or 4 classes. No one is admitted to a place in the Class Lists who has exceeded a certain number of terms reckoned from Matricn. No conditions of residence are attached by the Univ. to either Pass or Honour examns.; it is simply for the attainment of the degree of B.A. that residence is obligatory. Every Coll. and Hall, however, as well as the Delegacy of Non-Coll. Students, has its own rules with regard to both residence and the entry for examns. A candidate for the degree of B.A. must (1) reside at the Univ. as a matriculated member during 9 terms, unless he is privileged as a member of another Univ. or as a "Service" Student; (2) pass or obtain Honours in the following examns., namely:

(*a*) *Responsions.* The examn. may be passed before matricn., and most Colls. require it or an equivalent examn. to be passed before residence is begun. Names of candidates who have not been matriculated must be entered through an officer of the Society to which they intend to belong. The examn. includes 3 groups: I. (*a*) Latin, (*b*) Greek; II. (*a*) English, (*b*) French, (*c*) German; III. (*a*) Maths., (*b*) Nat. Sc., (*c*) Maths. and Nat. Sc. In order to be deemed to have passed Responsions it is necessary to have passed either in both subjects of Group I. and in 2 subjects in Group III., or else in one subject at least in each group, and in 4 subjects in all, including two languages other than English.

(*b*) The *1st Public Examn.* in Holy Scripture and either in Greek and Latin or (for those who seek Honours in Maths. at the 1st Public examn.) in Maths.

(*c*) The *2nd Public Examn.* This consists of an examn. for Candidates who do not seek Honours, including a Pass School and a School of Agriculture and Forestry; the Preliminary or Previous Examns. of certain of the Honour Schools; and a Final Examn. in 10 Honour Schools, namely: Literæ Humaniores (Philos. and Ancient Hist.); Maths.; Nat. Science (Phys., Chem., Physiol., Zool., Bot., Geol., Astron., or Engin.); Jurispr.; Mod. Hist.; Theol.; Oriental Studies (Sanskrit, Arabic, Hebrew, Persian, or Egyptian); Engl. Lang. and Lit.; Mod. Langs. (French, Ger., Ital., Span., Russ., or Mediæval and Mod. Greek); Philos., Politics, and Economics.

Under certain conditions members of other Univs. and persons not under 21 years of age who have held for not less than 3 years a permanent Commission in H.M. Navy, Army, or Air Force, and been admitted to the status of "Service Student," may obtain exemption from Responsions and, under further conditions, from the 1st Public examn., as well as a remission of 3 terms of the necessary residence. Such privileged students are entitled Affiliated, Colonial, Indian, or Foreign students according as their previous Univ. was at home, in the Colonies, in India, or in a foreign country (v. *infra*, "Affiliated Institns."). Natives of Asia, Egypt, or the Sudan, born of non-European parents, can apply for permission to offer a substitute for Latin or Greek in Responsions and the 1st Public examn.

The DEGREES B.LITT. AND B.SC., instituted in 1895 in order to encourage special study and research, are granted upon the satisfactory completion of an approved course of special study or research pursued under supervision and for the most part at Oxford. Application to enter upon such a course may be made by any person over the age of 21 years who produces sufficient evidence of his ability and (1) is a member of the Univ. who has passed the examns. for the degree of B.A., or (2) is a graduate in Arts, Letters, or Science of a Univ. within the U.K., or (3) can satisfy the Education Committee that he has received a good general education. Applications must in all cases be made to the Asst. Registrar through an officer of the Society to which the candidate

belongs or desires to belong. Residence as a member of the Univ. for 6 terms is a necessary condition for either degree (*see also* " Affiliated Institns.").

Of the same nature but of a higher standard is the degree of DOCTOR OF PHILOSOPHY instituted in 1918 (v. p. 10).

The higher degrees, D.LITT. AND D.SC., instituted in 1900, are awarded for published work of sufficient merit.

DIVINITY. The B.D. degree is open to candidates of over 26 yrs. of age who have passed a Qualifying examn. in Christian Theology, pursued a course of study therein extending over 6 terms, resided for 6 terms, and submitted a thesis of sufficient merit in some branch of the subject.

The degree of D.D. is open to those who have been admitted to the degree of B.D. subject to certain conditions of standing, provided they have submitted a thesis, or published work, of sufficient merit in some branch of Christian Theology.

LAW. The examn. for the B.C.L. degree is open either (1) to B.A.'s of the Univ. or (2) under certain conditions (including residence for 6 terms) to graduates in Arts, Philos., Science, or Law of other Univs. The subjects are Jurispr., Roman, Engl., and Internat. Law.

MEDICINE. The B.M. degree is open only to B.A.'s of the Univ. who have passed certain examns. in Med. and Nat. Science. The total period of study for the degree (including the scientific subjects studied in the Arts course) is generally about 7 years, of which between 2 and 3 are usually spent in London in preparation for the more strictly professional subjects of the 2nd B.M. examn. The M.Ch. degree is open to candidates who have passed all the examns. for the B.M. and B.Ch., and either are members of the Surgical staff of a recognized hospital or have acted in such a hospital as Dresser or House Surgeon for 6 mos. A candidate for the D.M. must be a B.M., and have entered on the 30th term from matricn. and had his name on the books of some Coll. or Hall or on the Register of Non-Coll. Students for 20 terms.

MUSIC. The degree of B.Mus. is open to candidates who *either* (*a*) have been admitted to the degree of B.A. *or* (*b*) have (1) passed Responsions or an equivalent or a special Prelim. examn. for students of music, (2) satisfied the examiners in English and 1 of 4 language subjects in the Final Pass School, and (3) pursued either at the Univ. or at some approved institn. a course of musical study, approved by the Board of Studies for Music, extending over at least 2 yearly courses. All candidates must also pass 3 examns. in Music (the subject of one of which is the composition of a Musical Exercise) under conditions laid down by Statute. There is no residential qualification for the degree of B.Mus., but the conditions of admission to the various examns. make it necessary that the candidate's name should be on the books of his Coll. or Hall or of the Society of Non.-Coll. Students for at least 9 terms. A B.Mus. may qualify for the degree of D.Mus. by passing 2 further examns. in Music, but cannot take the degree until the 9th term after his admission to the Baccalaureate.

DIPLOMAS. Most of these are open to persons who are not members of the Univ. Minimum courses and secretaries from whom particulars can be obtained :

Geography, 1 yr., Reader in Geog., Acland House, Broad St.
Education, 1 yr., Director of Training, 22 St. John St.
Economics and Polit. Sc., Reader in Econ. Hist., Oriel Coll.
Anthropology, 1 yr., Reader in Social A., Barnett House.

Forestry, 2 yrs., Secy., School of F.
Rural Economy, 2 yrs , Secy., School of R.E.
Classical Archæology, 1 yr., Secy. to Committee on C.A., Ashmolean Museum.
Theology, 1 yr., Asst. Registrar.
Open to Registered Medical Practitioners: Public Health and (also open to approved Bachelors and Doctors of Med. of Univs. outside the U.K.) Ophthalmology, Asst. Registrar.
Certificates: Surveying or General and Regional Geog., 2 terms, Reader in Geog.; Physical or Cultural Anthropology, 2 terms, Reader in Social A., Barnett House; Modern History, 1 yr., Asst. Registrar; French or German, Asst. Registrar.

ARMY. The Univ. is empowered (Army Orders for March 1920) to nominate candidates for Regular commissions in H.M. Forces.

INDIAN CIVIL SERVICE. Studies of selected candidates are superintended by a Delegacy.

A Department for the TRAINING OF TEACHERS was established in 1919 (Director, F. J. R. Hendy, M.A., address—22 St. John St.). Candidates for the Diploma (v. *supra*) must satisfy the Dept. of their efficiency as teachers. Students who have obtained the Diploma and fulfilled certain other conditions are recognized as certificated Teachers by the Board of Educn. The 1 yr. course is open to graduates of any recognized Univ. and to other students who have passed certain examns. Maintenance grants are obtainable on certain conditions. The 4 yrs. course (the 4th yr of which is wholly devoted to the study of Educn) is open to undergraduates of Oxford; substantial grants are given by the Board of Educn. on certain conditions throughout the whole of the course. Both courses are open to men and women. Graduate teachers of 7 yrs.' standing are admitted to the Diploma examn. after attending a *vacation course of* 1 month.

DELEGACY FOR ORIENTAL STUDENTS. The Secy., S. M. Burrows, C.I.E., M.A., Indian Institute, is prepared to advise Indian and other Oriental students.

In 1910 a DELEGACY FOR WOMEN STUDENTS was constituted, and provision made for recognition by the Univ. of Societies for their reception for academical study, students on the books of such Recognized Societies being accorded a privileged status. Under the provisions of a Statute approved by Convocation on May 11, 1920, which came into force on Oct. 7, 1920, women may be matriculated and admitted to degrees in the Univ. Previous to matricn. a woman must have been admitted as a member of one of the 5 Societies of Women Students. A woman may be admitted to *Responsions* before matricn. provided her name is sent in to the Asst. Registrar by the Head or a Tutor of a Soc. to which she *bona fide* desires admission. Women members of the Univ. are admitted to all degrees (except B.D. and D.D.) under the same conditions as those prescribed for men as regards standing, examns., course of study, exercises, and fees, and under analogous conditions as regards residence. The regulations on the subject can be obtained from the Delegacy, Clarendon Building, to whom general inquiries as to facilities open to women for study should be addressed.

SCHOLARSHIPS. College Entrance scholarships are very numerous and valuable. The Univ. scholarships are usually open only to members of specified standing. Of those open to graduates, 16, of the aggregate value of £1130 p.a., are for Engl., Greek, and Latin; 1 (£100) is for Ment. and Mor.

Philos.; 2 (£80) for Maths.; 8 (£1340) for Med. and Nat. Science; 4 (£440) for Law; 3 (£300) for Theol.; 13 (£760) for Oriental Studies. There are several College Research Fellowships tenable by persons distinguished in Science or Lit. (who may be elected without examn.) on condition of prosecuting some definite work.

The General Board of Faculties has power to provide studentships for advanced study and research; and there are certain funds, such as the Craven and Ireland, from which grants for the furtherance of particular studies may be made.

The **Rhodes Scholarships** were founded in 1902 under the will of the late Cecil John Rhodes. The value of each Scholarship is £300 a year, and they are tenable at Oxford for 3 years, subject to approval from year to year by his College of the Scholar's progress and conduct. The conditions of competition in each country or community are fixed from time to time by the Trustees.

In his will, Mr. Rhodes expressed the wish that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness, and fellowship; and (4) his exhibition during schooldays of moral force of character, and of instincts to lead and to take an interest in his schoolmates."

The Dominions and Colonies. An annual Scholarship is assigned to each Province of the Dominion of Canada; to each State of the Australian Commonwealth; to the Dominion of New Zealand; and in South Africa to the Province of Natal, the Transvaal, the Orange Free State, the Cape Province, the S.A. College School in Cape Town, the Diocesan College School of Rondebosch, the Boys' High School, Stellenbosch, and the St. Andrew's College School at Grahamstown, in alternate years to the towns of Kimberley and Port Elizabeth, and not more than three annually to Rhodesia. The Colonies of Jamaica, Newfoundland, and Bermuda have each an annual Scholarship. A single Scholarship was for the first time allotted to the Island of Malta in 1920.

In founding these Scholarships, Mr. Rhodes stated that he did so because he believed that the education of young Colonists at one of our residential universities will "broaden their view," "instruct them in life and manners," and "instil into their minds the advantage to the Colonies as well as to the United Kingdom of the retention of the unity of the Empire."

United States of America. Two Scholarships are assigned to each State. Since the Scholarship is tenable for 3 years, there will be 1 year out of every 3 in which there will be no election. In each of the other 2 years 1 scholarship will be filled up if a suitable candidate offers. The reason given by Mr. Rhodes for founding the American Scholarships is his "desire to encourage and foster an appreciation of the advantages which I implicitly believe will result from the union of the English-speaking people throughout the world, and to encourage in the students from the U.S. . . . an attachment to the country from which they have sprung but without I hope withdrawing them or their sympathies from the land of their adoption and birth."

General. Provision is now made under the Trust for the continuous residence at Oxford of 186 scholars. Candidates must be between 19 and 25 years of age and unmarried. They must be citizens of the country from which they come—usually with 5 years' domicile; and must have 2 years' standing at a regular degree-granting College or Univ., except in a few small communities which have no such institution. Detailed information for each country may be obtained from the offices of the Trust, Seymour House, Waterloo Place, London, S.W.1. Constable, London, and the Houghton

Mifflin Co., Boston, publish a volume on the Scholarships, by the Organizing Secretary.

Oxford Secretary, F. J. Wylie, Esq., 9 South Parks Road, Oxford.

American Secretary, Professor Frank Aydelotte, Institute of Technology, Cambridge, Massachusetts.

The APPOINTMENTS COMMITTEE, together with its Consultative Committee, contains representatives of every College. It receives notice of (1) scholastic appointments; (2) administrative posts for which the Committee are asked to recommend candidates; (3) openings in Banking and Commercial houses. The *Secy.* is R. Truslove, M.A., Old Ashmolean Building, Broad St. Telegraphic address—Appointments, Oxford; Telephone 225 Oxford. Brief information about posts in the *Public Services* suitable for men who have taken their degree at the Univ. is given in Ch. XV. of the Ox. Univ. *Handbook* (v. " Publications ").

LIBRARIES AND MUSEUMS. The *Bodleian Library*, founded by Sir Thomas Bodley in 1602, which is also the general library of the Univ., contains over 1,000,000 vols. (representing more than 2,000,000 separate literary pieces) and 40,000 MSS. Persons, other than graduates of the Univ., are admitted on presenting a recommendation from some one in a responsible position. The *Manual for Readers* (obtainable from the Librarian) contains full information about the contents and catalogues of the Library. The chief books relating to it are: Macray, W. D., *Annals* (Clar. Press, 1890, 25s.); Clark, A., *Guide for Visitors* (Clar. Press, 1906, 1s. 6d.); Gibson, S., *Some Oxford Libraries* (Clar. Press, 1914, 2s. 6d.); *The Bodleian Quarterly Record* (1s. quarterly, obtainable from the Libn.).

The Taylorian Library of *Modern Languages and Literature*, 50,000 vols., comprises the chief philological, literary, and historical works of the principal European languages and nearly all respective Reviews, Literary periodicals, etc., of Continental Societies of importance. The Radcliffe consists very largely of books on Mathematics, Natural Science, and Medicine, and the Tylor *Anthropological* collection.

The Codrington Library (All Souls College) is especially rich in works bearing upon *Modern History and Law*. The Maitland Library, also at All Souls, is intended to assist advanced work and research in social and legal history. The Beit—*Colonial History*, the *English School*, and a *Geographical* Library (5000 vols.) and *Maps* (13,000 sheets) are at Acland House, 40 Broad St.; and a Library of *Economics and Politics* at Barnett House.

The *Indian Institute* has 23,000 vols. representing ancient, mediæval, and modern India and including also Arabic, Armenian, Georgian, Turkish, Egyptian, Burmese, and Chinese works; Sanskrit and Prakrit MSS. (printed catalogue); all the leading Oriental journals in English, French, and German; and a Museum giving an historical synopsis of Indian life and customs.

The *College Libraries* include many important collections such as the *Russian and other Slavonic* books, 5000 vols., of Queen's; *History and Literature* MSS. of 17th Century of Worcester; *Music and Early Scandinavian* collections of Christchurch. The MSS. in the College Libraries are described in Coxe's Catalogue, published at the Clarendon Press.

Art and Archæology. The Ashmolean, the earliest English Museum, formed 1600–1650, contains, in addition to a Library of *Art and Archæology*, the Parian and other marbles, Egyptian and Oriental, Classical, Prehistoric, Anglo-Saxon and local antiquities, 60,000 coins and medals (published catalogue of Mohammedan coins), and a special collection of Drawings and Engravings by Ruskin.

The 'Pitt-Rivers Museum has an *Anthropological* collection illustrating evolutionary history of material arts.

Zoology, *Geology*, *Mineralogy* (17,000 spec.), *Entomology* (Lepidoptera Collection illustrating mimicry, etc.), are all represented in the Univ. Museum.

LABORATORIES: Electrical; Clarendon (chiefly for study and research in Heat, Optics, and Acoustics); Chemistry, Organic and Inorganic (several Colleges have labs. of their own, *e.g.*, Ch.Ch., Magd.—Analyt. Chem.; Ball. and Trin.—Phys. Chem.; Jes.—Inorganic; Queen's); Physiol.; Zool., with small expl. garden; Entom., with extensive Collections and Library; Botany (Garden with Collections and Library); Geology (special equipment for study of fossils by serial sections); Mineralogy (special facilities for research in Crystallography); Engineering; Forestry (expl. plantations and forest garden); Model Farm; Human Anat.; Path. and Bact.; two *Observatories*.

The OXFORD AND CAMBRIDGE SCHOOLS EXAMN. BOARD, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly examns. and awards certificates—Higher, School, and Lower. The two former exempt the holder, under certain conditions, from Responsions, Little-go, Matricn. examns. of London and of the Northern English Univs., and the Prelim. examns of various professional bodies, etc. The Regns. of the Board are published by the Ox. and Camb. Univ. Presses, price 1s. Secretaries: at Oxford—C. H. Wilkinson, M.A., 74 High St; at Cambridge—T. G. Bedford, M.A., 61A St. Andrew's St.

LOCAL EXAMINATIONS are held in March, July, and Dec. at Oxford and elsewhere. Candidates successful in the Senior or Higher Local examns., or in the Higher School Certificate examn., are on certain conditions exempted from Responsions. The regns. may be obtained from the Secy. of Local Examns., Merton St. All the examns. are open to persons of both sexes.

UNIVERSITY EXTENSION. The system begun in Camb. was adopted by Ox. in 1878. Up to the end of the session 1919–20 the number of persons attending courses was 585,864, and the number of students examined 28,760; 19 summer meetings had been held. Reading Univ. Coll. largely owes its origin to extension work. The following certifs. are issued under the sanction of the Delegacy: Terminal, on courses of 10 or 12 lectures; Sessional, on 24; Sessional in Honours, implying distinction and a special essay; affiliation or Higher Certif. of Systematic Study, on a sequence of courses comprising 96 lectures *plus* a general examn.; Vice-Chancellor's, on same conditions as affiliation *plus* examn. in Elem. Maths. and 2 languages. The majority of the lectures are on historical, scientific, or literary subjects. Any Univ. Extension student who avails himself of all the advantages offered, including the Summer Meeting, can secure continuous and systematic instruction in almost any subject for a yearly outlay not exceeding £10. Two Colls. (Ball. and Ch.Ch.) have elected Senior Extension Lectrs. to Fellowships or Studentships in view of their success in Univ. Extension work. Further information can be obtained from the Secy. to the Delegates, Univ. Extension Office, Examn. Schools, Oxford (Rev. F. E. Hutchinson, M.A.).

Tutorial Classes are held in working-class districts under the supervision of a Standing Committee consisting of 7 Univ. Extension Delegates and 7 representatives of the working classes. Students pledge themselves to a 3 yrs.' course. The classes meet once a week for 2 hrs. from Sept. to April, and each student writes an essay every fortnight. The Organizing Secy. is E. S. Cartwright, Barnett House, Oxford.

AFFILIATED AND OTHERWISE RECOGNIZED INSTITUTIONS. Members of the following Univs. may be admitted as "Junior" or "Senior" students: Birm., Durh., Leeds, Liv., Lond., Manc., Sheff., Wales, Aberd., Edin., Glas., St. And.; All., Bom., Calc., Mad., Mys., Panj.; Ac., Adel., Bish., S. Africa, Cape Town, Stell., Dal., King's (N.S.), McG., McM., Manit., Melb., Mt. All., N. Bruns., N.Z., Qu. (Ont.), Syd., Tasm., Tor. Members of the following may be admitted as Junior students only—Belf., N.U.I.; Alb., Laval, Malta, Ottawa, Queensland, Sask., St. Joseph's Coll. (N.B.), Hong-Kong. Such admission enables students to (1) reckon the term in which they are matriculated as their 4th for all purposes, except admission to B.C.L. examn.; (2) be exempted from Responsions [senior students—also from the 1st, and any Prelim. examn. of 2nd, Public examn.]; (3) take the degree of B.A. after a residence of 6 terms instead of 9, provided that they have passed the 2nd Public examn., and have obtained Honours in the 1st or in the 2nd [Senior students—in the 2nd] Public examn., and that a Junior student who has not taken Honours cannot take the B.A. until he has resided for 9 terms. A student who has obtained the L. ès L. or L. ès Sc. at a Univ. of the French Republic or the Ph.D. at certain other European Univs. is eligible for the status of Foreign Junior, or, if the mention *bien* or *cum laude* or higher distinction has been obtained, Foreign Senior, Student.

For admission to the status of Junior (or Senior) student, a candidate must have pursued at his Univ. a 2 yrs. (or 3 yrs.) course of study, and passed all the examns. incident thereto (Senior Student—obtained a degree at that Univ., such Degree and such Univ. having been approved by the Hebd. Council; members of Indian Univs. must have obtained Honours in the Final examn. incident to the course). Candidates for the junior status from Univs. within the U.K. must have attained at their examns. a certain specified standard, and those from Indian Univs. must have passed the examns. for the B.A. or B.Sc. degree.

Members of the following *Affiliated Colleges* may claim the status of Affiliated Junior student if they have pursued a 2 yrs. course of study at their Coll. and taken Honours in an examn. thereon: St. David's Coll., Lampeter (3 yrs. course with Honours may give admission to status of Senr. student); Univ. Colls., Nottingham, Reading, Southampton, Exeter; Exeter Diocesan Training Coll.

Persons are permitted to enter as students with a view to the *Degree of B.Litt. or B.Sc.* who (1) have passed the B.A. examns. at Ox.; (2) are grads. in Arts or Letters or Science of Univs. in the U.K.; (3) are grads. in Arts of the Indian, Colonial, and Foreign Univs. above mentioned, or of Berl., Bonn, Bres., Buda P., Freiburg, Gött., Greif., Halle, Heid., Kiel, Kön., Leid., Leip., Marb., Mun., Müns., Strass., Utr., Vien.

PUBLICATIONS: *Calendar* (Nov.) 6s. (includes Honours of each year since Oct. 1900. Earlier Honours given in Historical Register 1900, 2s. 6d.); *Responsions* Pamphlet (June) 2d. (subjects, dates of examns., conditions of entry, exemptions); *Handbook*, giving conditions of Admission and Residence, courses and examns., scholarships, etc., facilities for special study, etc.—new edition in preparation; *Statutes and Decrees* (Oct.), 5s.; *Examn. Statutes* (June), 1s.; Pamphlet on *Advanced Study and Research* (Research Degrees, subjects of study, Libraries and Collections, Scientific Departments and Staffs); *Enactments* in Parliament concerning Ox. and Camb., Winchester, Eton, and Westmr., 2 gs.; *Principles and Methods of Univ. Reform*, by Curzon, 1909; *Univ. Gazette* (official), 3d. weekly. All the above are obtainable from the Oxford Univ. Press and its branches. The *Ox. and Camb. Year-book and*

Directory, Sonnenschein, 5s.; each part gives short records of living graduates; *Ox. Review* daily during term, C. Harris, 11 New Rd. Numerous Histories of the Univ. and Colleges have been pubd. by the Ox. Hist. Soc., Hutchinson and Co., and others.

THE YEAR 1919–20

BENEFACTIONS. Walter Morrison, £50,000 for the Bodleian; Viscount Rothermere, £20,000 for Vyvyan Harmsworth Chair of American History; E. Whitley, £10,000 towards Chair of Bio-Chem.; C. F. Nolloth Endowment of Chair of Philos. of Christian Religion; British Dyestuffs Corpn., £5000 towards extension of Organic Chem. Lab.; Christ Church, £1000 for the Bodleian; All Souls, £500 for the Bodleian, and £200 for Tutorial Classes expenses; Rhodes Trustees, £10,000 for Chair of Roman-Dutch Law, and £200 p.a. for 3 years towards stipend of a Lectr. in Crim. Law and Evidence; for P. F. Walker Studentship in Pathology, £2000; Don G. J. de Osma, £2111 for Studentship for study in Madrid; Prof. F. Haverfield Bequest for study of Roman-British Antiquities.

LEGISLATION provided for the admission of women to matriculation, graduation, membership of Hebdomadal Council, Congregation, Faculties, and Boards of Faculties; reconstitution of Responsions, so as to make no one subject compulsory; for candidates for Honours in certain Final Schools who have not taken Hons. in the 1st Pub. examn. nor passed in Greek, an examn. in a portion of Greek History or Lit. together with texts, offered in translation, illustrating such History or Lit.; modification of examn. in Holy Scripture enabling candidates to pass without offering Gospels in Greek; throwing open of the Divinity degrees to members of all Christian denominations; increase of matricn. fee from £3 : 10s. to £4, and of Univ. dues from undergraduates from 12s. 6d. a quarter to £1 : 10s. a term; reduction of fees payable to the Univ. by candidates for the D.Phil.; formation of a fund for provision of advanced instruction in Mediæval and Mod. Hist., analogous to existing Engl. Fund; discontinuance of examn. for Diplomas in Mily. subjects, and making Mily. Hist. one of the Final Pass School subjects; recognition for the purpose of admission of their members as "Junior" or "Senior" students was accorded to the Univs. of Cape Town, Stellenbosch, and Hong-Kong.

SPECIAL OCCURRENCES. An illuminated address was received from the Univ. of Louvain; presentations of books to the Univs. of Louvain, Nancy, and Belgrade were made.

UNIVERSITY EXTENSION LECTURES, 1919–20: 784 distributed in 111 courses at 77 centres, regularly attended by 12,596 persons. 26 lectrs. were employed. Of the courses 66 were in History or Literature, 19 in Econ., 6 in Art and Archæol., 12 in Nat. Sc., 6 in Music, 1 in Biblical Studies, 1 in Philos. 14 full Tutorial classes and 2 preliminary 1 yr. courses were held with an average attendance of 279. A summer meeting in Oxford is to be held in Aug. 1921, subject—Ancient Rome: its Place in the History of Civilization.

NUMBER OF UNDERGRADUATES on the books at the beginning of Michaelmas term 1920: men, 5002; women, 687. (In 1918, 1919: men, 2695, 4444; women, 380, 545.)

HONORARY DEGREES, 1920: *D.C.L.*—Paderewski, I. J., late Prime Minister of Poland; Venizelos, E., late Prime Minister of Greece; Edwards, A. G., Archbishop of Wales; Bernard, Most Rev. J. H.; Robertson, Field-Marshal Sir W. R.; Sumner, Rt. Hon. Lord; Barnes, Rt. Hon. G. N.; Zaharoff, Sir B. *D.Litt.*—Sandys, Sir J. E.; Bacon, Prof. B. W.; Delehaye, Rev. H.; Hardy, Thomas; Lowell, Abbott L.; Zammit, Prof. T. *D.D.*—Cooper, Very Rev. Prof. J.; D'Arcy, C. F., Archbishop of Armagh; Donaldson, St. C. G. A., Archbishop of Brisbane; Gailor, T. F., Bishop of Tennessee; Nash, J. O., Co-Adj., Bishop of Cape Town; Peake, Prof. A. S.; Skinner, Rev. J.; Smith, Very Rev. Sir G. A.; Thackeray, H. St. J.; Thorneloe, G., Archbishop of Algoma; von Hügel, Baron F.; Westcott, F., Bishop of Calcutta. *D.Sc.*—Keogh, Lt.-Gen. Sir A.; Goodwin, Lt.-Gen. Sir J.; Glazebrook, Sir R. T. *M.A.*—Thring, D. T. *Encænia*, 1921, will be held on June 22.

OTHER DEGREES, 1917–18 to 1919–20: B.A.—215, 559, 428; M.A.—251, 450, 457; B.M.—16, 12, 6; B.Sc.and.B.Litt.—10, 10, 21; B.D.—6, 9, 5; B.C.L.—2, 9, 8; others—22, 29, 34.

Number of successful candidates in the Final Honour Schools in 1919, 1920: men—55, 369; women—66, 102. In 1920 men and women successful in Litt. Hum.—55, 3; Maths.—7, 0; Nat. Sc.—48, 8; Jurispr.—91, 3; Mod. Hist.—98, 39; Theol.—27, 0; Orient. Langs.—1, 0; Engl. Lang. and Lit.—27, 32; Mod. Langs.—15, 17.

DEATHS. W. Sanday, Lady Margaret Prof. of Divinity; Sir T. Raleigh, Deputy Steward; Sir W. Osler, Reg. Prof. of Medicine; D. H Nagel, Vice-Pres. of Trinity; A. Sidgwick, Fellow of Corpus; W. W. Fisher, Demr. in Chem.

RETIREMENTS, ETC. T. B. Strong, Dean of Ch.Ch., and H. H. Williams, Principal of St. Edmund Hall, became Bishops of Ripon and Carlisle respectively; H. Goudy, Reg. Prof. of Civil Law, now Prof. Emeritus; S. H. Vines, Prof. of Botany, and H. E. Egerton, Prof. of Colonial Hist., resigned; W. Lock resigned Wardenship of Keble on election as Lady Marg. Prof. of Div.; C. B. Heberden, Principal of Brasenose; E. Barker, Fellow of New College, was appointed as Principal of King's College, London; C. Grant Robertson, Fellow of All Souls, was appointed Principal of Birmingham University.

THE UNIVERSITY OF SHEFFIELD

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Hon. the MARQUESS OF CREWE, K.G.

PRO-CHANCELLORS—H. K. STEPHENSON, LL.D., M.P.; A. J. HOBSON, LL.D.

VICE-CHANCELLOR—Sir W. HENRY HADOW, Kt, C.B.E., M.A., D.Mus.

TREASURER—D. VICKERS, M.P.

REGISTRAR—W. M. GIBBONS, O.B.E., M.A.

LIBRARIAN—A. P. HUNT, B.A.

PROFESSORS, LECTURERS, ETC.

Anatomy

Patten, C. J., M.A., M.D., Sc.D Dub. A. Jackson Prof.
Naish, Lucy, M.D. Lond. (Osteology) Lectr.
Cobb, J. H., M.B. Lond. and Sheff., F.R.C.S. Eng. and Edin Asst.

Architecture

Smith, F. R., A.R.I.B.A. Lectr
Jenkinson, J. M., A.R.I.B.A. Asst. Lectr.
Leighton, H. B., A.R.I.B.A. Junr. Lectr. & Demr.
3 Hon. Lectrs for Evening Courses.

Art v. Civic

Biology v. Zool.

Botany [Lectr.

Bentley, B. H., M.A. Ox., F.L.S.
Thomson, J. J., M.A., B.Sc. Glas Asst. Lectr. & Demr.

Chemistry

Wynne, W. P., D.Sc. Lond., F.R.S., F.I.C. Firth Prof.
Kenner, J., D.Sc. Lond., Ph.D. Heid. (Organic C.) Lectr.
Tryhorn, F. G., M.Sc. Liv. (Phys. C.) Lectr.
Turner, Emily G., M.Sc. Asst. Lectr.
Bennett, Dorothy M., M.Sc. Asst. Lectr.
Smith, T. B., B.Sc. Lond. Asst. Lectr.
Chapman, A. W., B.Sc. Lond. Demr.
Ibbotson, Kathleen, B.Sc. Demr.

Chemistry, Applied, v. Tech.

Civic Art

Rothenstein, W., M.A. Prof

Classics

Forster, E. S., M.B.E., M.A. Ox., F.S.A. (Greek) Lectr.
Summers, W. C., M.A. Camb. (Latin) Firth Prof.
Whitehead, Florence, M.A. Manc. Lectr.
Craig, J. D., M.A. St. And. Lectr.

Dentistry v. Physiol.

Economics

Knoop, D., M.A. Manc. Prof.
Beales, H. L., M.A. Manc. Asst. Lectr.
Jack, T., M.A. Glas. Asst. Lectr.

Education [Prof.
Green, J. A., B.A. Lond., M.A.
Thompson, J. R., M.Sc. Durh. Lectr.
King, Etheldreda, B.A. Lond. Lectr.
Bone, Woutrina A., B.A. Lectr.
Vickers, W., M.Sc., M.Ed. Manc. Lectr.
Bradford, E. J. G., B.Sc. Lond. Lectr.

Engineering
Ripper, W., C.H., Hon.D.Sc.Eng. Bris., D.Eng., M.I C.E. Prof.
Boulden, F., B.Sc. Lond., M.Eng., A.M.I.C.E. Senr. Lectr.
Kershaw, J. W., M.Sc. Manc., B.Eng. Lectr.
Hibbins, W. G., B.Sc. Lond, B.Eng., A.M.I.C.E. Lectr.
Waite, C. W., B.Sc. Lond. Lectr
Burley, G. W., A.M.I.M.E. Lectr.
Davies, H. J., B.Sc. Lond. Asst. Lectr.
Gulliver, G. C. Demr.
Burnet, W. Asst. Lectr. & Demr.
Turner, F. C., M.Eng. ,, ,,
Richards, D. J., M.A. Research Asst.

Engineering, Civil
Husband, Joseph, M.Eng, A.M.I.C.E., M.S.C.E. France, F.R.C.Sc.I. Prof.
Fordham, A. A, A M I.C.E. Lectr.

Engineering, Elec. [Lectr.
Crapper, E. H., M.Eng., M.I.E.E.
Wall, T. F., D.Sc. Vict., D.Eng. Liv. Lectr.
Asst. Lectrs.:
Hainsworth, C. H., A.M.I.E.E.
Joyce, T. C., B.Sc. Demr.
Hunt, F. O.

Engineering, Mining
Armstrong, F. E., M.Sc. Manc., A.M.I.C.E. Prof.
Statham, I. C. F., F.G.S. Lectr.

English Lang. and Lit.
Smith, G. C. Moore, Litt.D. Camb., Hon.Ph.D. Louv. Prof.
Jones, J. D., B.A. Lond., Ph.D. Berl. Lectr.
White, H. M. O., M A Dub. Lectr

French
Baker, A. T., M.A., Litt.D. Camb., Ph.D. Heid. Prof.
Larg, D J, M A. Aberd. Lectr

Geography
Brown, R. N. Rudmose, D.Sc. Aberd. Lectr.

Geology [Sorby Prof.
Fearnsides, W. G., M.A. Camb.
Wilcockson, W. H., M A. Camb. Lectr.
Rees, W J, F I C Lectr. (Refr. Mats).

German
Willoughby, L. A, M.A., D.Lit Lond., Ph.D. Vienna Lectr.

History
Appleton, H. W., M.A. Ox. Prof. (Ancient H.).
Black, J. B., M A Glas and Ox. Prof. (Mod & Const. H).
Ward, E. H, M A. Camb Lectr. (Eccl. H).
Perham, Marjory Lectr. (Modern H.).
Catlin, G E G., B.A. Ox. Lectr (Modern H.).
Powell, Isabel, M A. Lond. Lectr. (Modern H.).

Law
Trotter, W. F., M.A., LL.D. Camb., Bar.-at-Law, K.C. (Scot.) Prof.
Metcalfe, O. K., M.A., LL.M. (Pub. and Com. L.) Lectr.
Ellis, B., Barr.-at-Law Asst. Lectr.

Mathematics [Town Trust Prof.
Leahy, A. H., M.A. Camb.
Stewart, C. A., M.A. Glas., B.A. Camb. Lectr. (Geom).
Spencer, T. B. W., B.A. Camb. Asst. Lectr. & Tutor.

Bryan, W E., M.A. Camb.
Asst. Lectr.
Thompson, R. S. (for Engin.) Lectr.

Medicine v. *infra*

Metallurgy, v. also Geol.
Desch, C. H., D.Sc. Lond., Ph.D. Wurz, F.I.C. Prof.
Knowles, F. K, M.Met. Sen. Lectr.
Ibbotson, F., B Sc. Lond., B.Met., F.R.C.Sc.I., F.I.C.
Sen. Lectr.
Wreaks, J. H., B Met. Lectr.
Orme, F., M.Met.
Asst. Lectr. (Non-ferrous M)
Waterhouse, H., M.Met. Demr.
Percival, R. T. Demr
Bradbury, Miss E, B Sc. Demr.
Lobley, A G, M Sc. Manc.
Part-time Lectr (Electro-M).
Gregory, E. Demr.

Music
Linfoot, G. E., B.Mus., B Sc. Lond. Lectr.

Philosophy
Laing, B. M., M.A. Aberd. Lectr.

Physics
Milner, S. R., D.Sc. Lond. and Bris. Acting Prof.
Southerns, L., M.A. Camb., B.Sc. Lond. Lectr.
Lawson, R. W., D.Sc. Durh. Lectr.
Curtis, W. E., B.Sc. Lond. Lectr.
Mathews, Irene M. Asst. Lectr.
Clarke, J. R., M.Sc. Asst. Lectr.

Physiology
Leathes, J. B., M.A., M.B., B.Ch. Ox., F.R.C.S., F.R.S. Prof.
Eaves, Eliz. C., B.Sc. Lond. Lectr.
Imrie, C. G., M.D. Westn., Ont. (Applied P.) Demr.
..... (Dental Histol) Demr.

Public Health v. Medicine

Russian [Vickers Lectr.
Birkett, G. A., M.A. Liv.

Spanish [Hughes Lectr.
Birch, J. N., B.A. Lond.

Technology, Fuel
Wheeler, R. V., D.Sc Manc. Prof.
Batley, W. A., M.Sc Manc. Lectr.
Wigginton, R, B Sc. Lond., A R.C S Lectr.

Technology, Glass
Turner, W. E. S., O.B.E., D.Sc. Lond., M.Sc. Birm. Prof.
..... Lectr. & Demr.
English, S., M.Sc., A.I.C.
Lectr. & Research Asst.
Cousen, A., B.Sc., A.R.C.S., A.I.C.
Asst. Lectr. & Demr.
Connolly, J Hon. Lectr.
Wood, D., F.S.A.A. (Accounting) Hon. Lectr.

Research Assts.:
Hodkin, F. W., B.Sc., F.I.C.
Muirhead, Constance M. M., B.Sc.
Dimbleby, Violet, B.Sc.
Holdsworth, Doris, B.Sc.
Firth, Edith M., B.Sc.
Parkin, M., B.Sc.

Zoology
Denny, A., M.Sc., F.L.S. (also Prof. of Biol.) Prof.
Grove, A. J., B.A. Camb., D.Sc. Birm. Asst. Lectr. & Demr.
Tetley, H, B.Sc. Leeds
Asst. Demr. and Cur. of Museum.

Medicine

Dermatology and Radiology
Hallam, A. R., M.D., Ch.B. Edin., and 2 other Clin. Teachers.

Diseases of Children
Leader, H., M.B. Lond. Lectr.
5 other Clin. Teachers.

Dis. of Ear, Nose, and Throat
Wilkinson, G., B.A., M.B., B.Ch. Camb., F.R.C.S. Lectr.
1 other Clin. Teacher.

Diseases, Infectious
Williams, E. H., M.D. Brus., D.P.H. Lectr.

Diseases, Mental [Lectr.
Vincent, W., M.D., B.S. Durh.
1 other Clin. Teacher.

Diseases of Women
Phillips, M. H., M.B., B.S. Lond., F.R.C.S. Lectr.

Forensic Medicine
Carter, G., M.B., Ch.B. Manc., D.P.H. Lond. Lectr.

Medicine
Hall, A. J., M.A., M.D. Camb., F.R.C.P. Prof.
Naish, A. E., M.A., M.B., B.Ch Camb., F.R.C.P. Lectr.
Barnes, A. E., M.B. Lond., M.B., Ch.B. Lectr.
4 other Clin. Teachers.

Midwifery
Barber, P. E., B.A. Camb., Ch M Prof.
2 other Clin. Teachers and Lectr. in Dis. of Women.

Ophthalmology
Pooley, G. H., B.A. Camb., F.R.C.S. Eng. & Edin. Lectr.
3 other Clin. Teachers.

Pathology, v also Surg.
Douglas, J. S. C., M.A., D.M., B.Ch. Ox., M.Sc. Birm. Joseph Hunter Prof.
Simson, F. W., M B. Edin. Lectr.
Southgate, H. W., M B, B.S., B.Sc. Lond. Curator of Museum.
Challenger, N. E., M.D. McG. Demr.
Pleasance, R E., M B Demr.
Edington, J. W., M D., D.P.H. Edin. Dir. of P.H. Bact. Lab.
Buttery, Ethel M., M.B, Ch.B. Asst. Dir.

Pharmacology, v. also Physiol.
Mellanby, E, M A, M D Camb. Prof.

Public Health
Scurfield, H., M.D. Edin., D.P.H. Camb. Prof.
Anderson, A., M.B. Aberd, D.P.H. Demr.

Surgery
Connell, A., Ch M, F.R.C.S. Edin. (also Asst. Lectr. and Demr. in Path) Prof.
Simpson, G., F.R.C.S. Lectr.
Cuff, A, B.A., M.B., B Ch. Camb., F.R.C.S. Lectr.
Mouat, T. B, M D, Ch B. Edin., F R C S Tutor.
4 other Clin. Teachers.

Tuberculosis
Rennie, J., M.D. Aberd. Lectr.

Vaccination
..... Lectr.

GENERAL INFORMATION

University College, Sheffield, incorporated by Royal Charter in 1897, was in 1905 merged in the University of Sheffield constituted by Royal Charter in that year. The city being an important centre of steel, electro-plate, glass, and other manufacturing industries, and in the heart of an extensive coal-mining area, students of Engineering, Metallurgy, Mining, Fuel Technology, and Glass Technology have exceptional opportunities.

LIBRARY, 53,000 vols. Also Special Applied Science and Glass Technology departmental collections. LABORATORIES include Engineering, with complete illustrative steam-plant, air compressors, hydraulic appliances, 50-ton Buckton testing machine, 45 h.p. motor-driven high-speed steel tool testing lathe, etc.,

the machine-tool branch being a special feature; Electro-tech. (lighting, traction, power transmission, mining, electro-chem.), all provided with continuous and alternating currents, provision being made for 12 different combinations of parallel-running; Metallurgical, with the most modern apparatus for analysis and equipment, the most complete of its kind, for teaching practical manuf., chem. composition, and physical properties of steel (Siemens furnace of 2 tons capacity, Bessemer converter, elec. and annealing furnaces, etc.); Non-ferrous Dept., completely equipped for every phase of the work of the lighter Sheffield trades, silver and E.P., brass, and allied industries; Micrographic and Recalescence, each with complete installations; Glass Technology model factory for dealing with scientific manuf. on a commercial scale. OBSERVATORY with 6¼″ equatorial. HOSPITALS available for clinics include 2 general (517 beds), 3 special (740), and Lunatic Asylum.

FACULTIES. Arts, Pure Science, Medicine, Law, Engineering (Depts. of Mech., Elec., Civ., Mining, and Chem. E., Fuel Tech., Building, Glass Tech.), and Metallurgy (Ferrous and Non-Ferrous).

DEGREE COURSES. 3 yrs.—B.A. (with Honours in Archit.—5 yrs., including 2 in an Architect's office), B.Sc., LL.B. (including 2 yrs. or, after graduation, 1 yr. in the Univ.), B.Met. (3 yrs. evening courses may be taken by students of 20 yrs. of age in lieu of the 2nd and 3rd yrs.' day courses), B.Eng. ("Sandwich" course 4 yrs.); B.Sc.Tech. ("Sandwich" course 4 yrs.); 5 yrs. (including 3 in the Univ.)—M.B., Ch.B.

Attendance on approved courses at a Univ. or Coll. recognized for the purpose may be accepted as equivalent to such courses in the Univ. The Univ. of Caen has been recognized in the Faculty of Arts, and the Univ. contributes £6 towards expenses of undergraduates spending a term there. Courses in Chem., Phys, and Zool. at Univ. Coll., Nottingham, qualify for entrance for the 1st M.B., Ch.B.

A Secondary Schools Council, including, in addition to members of the Univ. staff, representatives of local education authorities and school staffs, keeps the Univ. in touch with secondary educn.

HIGHER DEGREES. Obtainable by Bachelors of 1 yr.'s standing—M.A., M.Sc., LL.M., M.Eng., M.Met., M.D., Ch.M.; 5 yrs.—Litt.D., D.Sc., LL.D., D.Eng., D.Met.; open to graduates in Arts of any Univ. of the U.K. after 2 yrs., to graduates of Faculties other than Arts after 3 yrs., of advanced study or research in Sheffield—M.A.; open to graduates in Science of any Univ. of the U.K. after 2 yrs. of advanced study or research in Sheffield—M.Sc.; Ph.D., v. p. 10.

DIPLOMAS. Archit.; Modern Lang. Teaching (graduates in Arts or others of similar attainments in the Lang.), 1 yr. course; Educn. (after graduation), 1 yr. (special facilities for Pedagogical research); Domestic Science, 2 yrs.; D.P.H., 9 mos.; L.D.S., 4 yrs.; Glass Tech., 3 yrs. (for those with 2 yrs.' pract. experience, 2 yrs.); Associateship in Engin., 3 yrs. (Works Pupils and Evening students, 4 yrs.); Associateship in Iron and Steel or Non-Ferrous Metallurgy, 3 yrs. (evening students, 4 yrs.); Mining, 4 yrs. (6 mos. each year in Colliery and 6 in Univ.; exemption from first yr. obtainable through examn. The Dipl. enables a student to sit for the examn. for a colliery manager's certif. after 5 yrs.' total training, including the time spent in the Univ.); Fuel, 4 sessions of 6 mos. each.

FEES. Matricn. £2. Registn. 21s. or 25s. Tuition for degree courses (approximate): B.A., £22 p.a.; B.Sc., £30 p.a.; B.Eng. or B.Met., £32 p.a.

(Glass Tech., £33, Fuel, £28, "Sandwich" course for B.Eng., 4 yrs., £24 p.a.); M.B., Ch.B., £180 for 5 yrs. course, including hospl. fees. Examns., Interm. or Final, £1 (M.B., Ch.B. examns., £15). Degree Fee, £5.

SCHOLARSHIPS, ETC., FOR GRADUATES. Sorby Research Fellowship (administered by Royal Society) for research in Sheffield Labs., about £500 p.a. for 5 yrs., renewable; Alfred Tongue Scholp., £100 for 1 yr. for research in Engin., Met., or Chem.; George Senior Fellowships, £125 p.a., 2 offered annually for research, one in Engin. and one in Met.; several others of from £50 to £100.

RESIDENCE, ETC. Stephenson Hall, primarily for Theol. students (C. of E.); fees, session 1920–21, £90. Univ. Halls for women, £46 to £70. Athletics ground, 15½ acres. The Students' Rep. Council is responsible for the Social life of the Univ.

UNIVERSITY EXTENSION work includes Tutorial classes, Free Extension Lectures, Summer Schools, Lectures to Sunday School Teachers, etc.

PUBLICATIONS. *Calendar* (Oct.), 2s.; *Floreamus*, a Chronicle pubd. at end of each term, annual subs., 2s. (the 10 completed vols. give a full history of the Coll. and Univ., with portraits, etc.); Annual Report in Nov.

THE YEAR 1919–20

BENEFACTIONS. In response to an appeal for general endowment, £83,845 was given or promised. Special appeals by the Depts. of Mining and Glass Technology have also been made.

NEW BUILDINGS, ETC. Further accommodation for Chem. and Physics depts. was provided at a cost of £8200. A new hostel for women was acquired with the generous assistance of Mr. F. Atkin.

NEW DEPARTMENTS AND POSTS. Depts. of Modern Hist., Pharmacology, and Fuel Tech., each with a Chair; Chairs of Econ., Civ. Engin., Glass Tech.; Director and Asst. Dir. of Pub. Health Bacteriological Lab.

CHANGES IN REGULATIONS, ETC. Ordinances for Assoc.'ships and Diplomas modified to combine practical experience with academic work.

OTHER DEVELOPMENTS. Secondary Schools Council, v. *supra.*; the more elementary work previously done in evening classes at the Univ. is to be transferred to the Sheff. Educn. Committee. Joint Hospl. Council formed. Lay members admitted to Clinical Committee of Med. Studies; Prof. of Pharmacology apptd. Hon. Physician to the Royal Infirmary, and Prof. of Physiology, Hon. Physiologist to Royal Inf. and Royal Hospl. Several Schools recognized for admission of students at Interm. stage. Courses of lectures by two of staff given in Univ. of Manchester.

SPECIAL EVENTS. Visits of Prime Minister, Earl Haig, Earl Beatty, and Sir Eric Geddes.

NUMBER OF STUDENTS. Full-time preparing for first degree, 524, including 128 women, for first diploma 306 (9 women); part-time (chiefly evening) diploma students, 663; research students, 15; other advanced students, 37; occasional students attending courses (day), 416; other students, day 424, evening 1577. Grand total, 3962 (1917–18 and 1918–19, 1753, 2162). Of students preparing for B.A. with Hons. in Mod. Langs., 2 went for study to

Paris, 4 to Caen, 3 to Spain. Students from Australia, 22 ; India, 5 ; Egypt, 3 ; China, 3. Freshmen matriculated 1920–21, 130 (38 women).

HONORARY DEGREES GRANTED. LL.D.—Rt. Hon. D. Lloyd George, Earl Haig, Sir E Geddes, A. J. Hobson, Earl Beatty. M.A.—H. Coward, E. M. Gibbs.

OTHER DEGREES (1917–18 to 1919–20) B.A.—13, 15, 28, including women, 11, 14, 23 ; B Sc —6, 5, 24 (women, 5, 3, 6) ; M.B , Ch B —2, 11, 1 ; B.Eng., B.Met., and B.Sc.Tech 2, 8, 27 ; M.A.—14, 19, 10 ; others, 2, 2, 15.

DEATH. Prof. L. T. O'Shea. RETIREMENTS. A. W. Bartlett, apptd. Lectr. at Armstrong College in Botany ; G. B Brook, Lectr. in Metallurgy and J. H. Davidson, Lectr. in Glass Tech., accepted apptmts. in industrial firms ; A. E. Findley, apptd. Chief Lectr. in Chem. in Liv. Central Tech. School ; H. M. Holt, Lectr. and Demr., apptd Prof. at Singapore ; A. H. Miller, Demr. ; L. V. D. Owen, Lectr., apptd. Prof. at Nott Univ. College ; F. Oxley, Lectr., apptd. organizer of Mining Educn. under a County Council ; W. S. Purcheon, Lectr., apptd Head of Dept. at Cardiff Tech. Coll. ; A S Russell, Lectr., apptd. Reader at Christ Church, Oxford ; H. Coward ; W. A. Smallcombe ; W. J. Law ; D. G. Newton ; Miss Uren ; F. C. Thompson.

EXTERNAL WORK. 23 Tutorial Classes. Numerous public lectures.

UNIVERSITY OF WALES

VISITOR AND PROTECTOR—H.M. THE KING.

CHANCELLOR—H.R.H. THE PRINCE OF WALES.

PRO-CHANCELLOR—Rt. Hon. LORD KENYON, K.C.V.O.

VICE-CHANCELLOR—for quadrennium ending Aug. 31, 1921, Principal SIR HARRY R. REICHEL, M.A., LL.D., Univ. Coll. of N. Wales.

WARDEN OF THE GUILD OF GRADUATES—Principal J. H. DAVIES, M.A.

CLERK OF THE GUILD OF GRADUATES—Prof. W. JENKYN JONES, M.A.

PRESIDENT OF THE THEOLOGICAL BOARD AND DEAN OF DIVINITY—Principal THOMAS REES, M.A.

REPRESENTATIVE IN PARLIAMENT—Rt. Hon. J. H. LEWIS, LL.D.

REGISTRAR—D. B. ANTHONY, M.A., University Registry, Cathays Park, Cardiff.

CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR.

UNIVERSITY COLLEGE OF S. WALES AND MONMOUTHSHIRE, CARDIFF.

UNIVERSITY COLLEGE, SWANSEA.

ASSOCIATED THEOLOGICAL COLLEGES

ABERYSTWYTH, The Theol. Coll. Principal—O. Prys, M.A., Prof. of *Philos. of Religion*, etc. Other Profs.: J. Y. Evans, M.A., B.D., *Ch. Hist.*, etc.; E. N. Jones, M.A., *Hebrew*, etc.; D. Williams, M.A., *N.T. Theol.*, etc.

BALA, The Theol. Coll. Principal—..... Profs.: R. Morris, M.A., B.D.; W. Porter, M.A., D.Litt.; J. O. Thomas, M.A.; D. Phillips, M.A.

BANGOR, The Baptist and Congregational Jt. School of Univ. Theol. Studies. Principals—S. Morris, M.A., Prof. of *N.T. Canon*, etc., and T. Rees, M.A., Prof. of *Christ. Doct.*, etc. Other Profs.: J. T. Evans, M.A., B.D., *Hebrew*, etc.; J. M. Jones, M.A., *Ch. Hist.*, etc.; T. Rhys, B.A., *N.T. Greek*, etc.

BRECON, The Memorial Coll. Principal—T. Lewis, M.A., B.D., Prof. of *Hebrew*. Other Profs.: D. M. Edwards, M.A., *Dogmatics*, etc.; Jos. Jones, M.A., B.D., *Greek*, etc.; John Evans, B.A., *Ch. Hist.*

CARDIFF, The S. Wales Baptist Coll. Principal—W. Edwards, B.A., D.D., Prof. of *N.T. Greek*, etc. Other Profs.: T. W. Chance, M.A., *Ch. Hist.*; J. M. Davies, M.A., *Philos.*, etc.; T. H. Robinson, M.A., D D., *Hebrew*, etc.

CARMARTHEN, The Presb. Coll. Principal—W. J. Evans, M.A., Lectr. in *Classics*, etc. Other Lectrs.: P. Moore, B.A.; M. B. Owen, B.A., B.D.; J. O. Stephens, B.A., B.D.

GENERAL INFORMATION

Founded by Charter, 1893, the Univ. has no teaching staff, the teaching for initial degrees being undertaken by the constituent Colleges, independent bodies with separate charters and government, to one of which every undergraduate must belong. The Univ. prescribes conditions under which it awards initial degrees to students of the Colleges and conducts the Final examns. An Academic Advisory Committee deals with the conditions on which the certifs. of the Central Welsh Board (v. p. 4) are accepted by the Univ. for matriculating, and as relieving a student from repeating in College work done in Secondary Schools, and with other matters lying in the borderland between School and Univ.

As the result of an enquiry held by a Royal Commission in 1916–1918, a Supplemental Charter was granted to the Univ. in 1920, which introduced many important changes, including: reconstruction of the Univ. Court, a deliberative and legislative body, which now comprises 250 members, of whom half are representatives of Local Education Authorities; institution of a Univ. Council, as the executive and administrative body of the Univ., controlling the finance and distributing all the funds provided for Univ. Education; provision of such funds from a penny rate levied throughout Wales and Monmouthshire, supplemented by an equivalent grant from the Treasury; larger freedom for the Constituent Colleges (now increased to four, by the inclusion of Swansea) in the control of the Courses of Study and in the conduct of their own examns. for initial degrees, Univ. Examiners now taking part only at the final stage; development of a National School of Medicine in connection with Cardiff College; new Boards for special studies, such as the Board of Technology, the Board of Celtic Studies, and the Council of Music; enlarged scheme for extra-mural instruction.

DEGREES. B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; B.Mus., M.Mus., D.Mus.; LL.B., LL.M., LL.D.; M.B., Cn.B.; B.D., D.D., Ph.D. (v. p. 10).

The minimum period of study for a first degree is 3 yrs. In Music the 3rd yr. may be in any approved Coll. of Music. The degree in Med. is only open to a graduate in Arts or Science of some British or approved colonial or foreign Univ.; the period of qualification for it is 6 yrs., of which the last 3 may be spent in an approved School of Med. in the U.K. or in one of the Univs. of Paris, Berlin, Vienna, or the Johns Hopkins Univ. The degree of B.D. (3 yrs. course) is post-graduate; the scheme of study is pursued in one of the Associated Theol. Colls. (v. p. 178). The qualifying period of study for the LL.B. is 4 yrs., reducible by 1 in the case of a candidate who has qualified for a degree in any Univ. in the U.K. The M.A., M.Sc., and LL.M. may be awarded to graduates of other Univs. approved for this purpose who pursue a scheme of research for at least 2 yrs. in one of the Constituent Colls.

Certificates in Educn. (post-grad. Certif. and Diploma); Public Health (D.P.H.).

FEES: Matricn., £2 (graduates of other Univs. exempt); examns. qualifying for Bachelor degree, from £6 to £7; Master, £8; Doctor, £16.

SCHOLARSHIPS, ETC., FOR GRADUATES. The Univ. has funds amounting to £2000 p a for the encouragement of research. In addition to 8 Fellowships, it awards studentships on the nomination of the Colls. to students who after graduation in Arts or Science engage in work preparatory to research for 1 or 2 yrs.

APPOINTMENTS BOARD for Wales (Secy., R. Silyn Roberts, M.A., Univ. Registry, Cathays Park, Cardiff) has been established by the Univ. in union with the Appointments Assocn. for Wales.

PUBLICATIONS: *Calendar* (Dec.), 1s. 6d. Courses in Arts, Science, Law, and Music, 6d. Courses in Div. and Med., Matricn. and Degree Regns., free. Examn. Papers, 3d. to 2s per set. Examns. passed in any year, 2d.

THE YEAR 1919–20 (v. also General Information, *supra*)

HONORARY DEGREES CONFERRED IN 1920. M.A.—H. Jenner, R. W. Jones, D. H. Williams; D.Litt.—Canon J. Fisher, H. Stuart Jones, Prof A. H. Sayce; D.Sc.—Sir R. Armstrong-Jones, E. Greenly; LL.D —Miss E. P. Hughes, J. M. Jones, Admi. Sir H Evan Thomas, Earl Haig, The Archbishop of Wales

OTHER DEGREES in 1918, '19, '20. B.A —90, 133, 159 (including women, 70, 72, 67); B.Sc.—15, 68, 98 (women, 8, 29, 21); B.Mus. and B D.—2, 2, 7; M.A.—8, 16, 15 (women, 1, 3, 4); M.Sc. and D.Sc.—3, 10, 8 (women, 1, 2, 1).

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—Sir JOHN WILLIAMS, Bart., G.C.V.O., M.D., D.Sc.

PRINCIPAL—J. H. DAVIES, M.A. Ox.

CHIEF CLERK—C. G. BURTON.

ACADEMIC SECRETARY—G J WALKER

LIBRARIAN—J. D. WILLIAMS, B.A.

PROFESSORS, LECTURERS, ETC.

Agriculture

Jones, Abel E., B Sc. Prof.
Phillips, R., B Sc. Lectr.
County Organizers, 6.
Instructors in Horticulture, 2.
Instructors in Dairying, 5.

Agric. Botany

Stapledon, R. G., M.B.E., M.A. Camb. Prof.
Sampson, Kathleen, M.Sc Lond. Lectr.
Marquand, C. V. B., B.A. Camb. Research Asst.

Agric. Chemistry

Griffith, J. J., B.Sc. Lectr.
Fagan, T. W., M.A. Camb., F.I.C. Adviser.
Davies, R. O., B.Sc. Asst. Lectr.

Arabic v. Hebrew

Botany

Williams, J. Lloyd, D.Sc. (also Lectr. in Music) Prof.
Jones, S. G., M.Sc. Lectr. & Demr.
Fry, Miss E. J., M.Sc. Asst. Lectr.
Walters, Miss G. A., B.Sc. Asst Lectr.

Chemistry

Jones, B. Mouat, M.A. Ox. Prof.
James, T. C., M.A. Camb., D.Sc., F.I.C. (Organic C.) Asst. Prof.
Hudleston, L. J., B.Sc., A.I.C. Lectr.

Asst. Lectrs. & Demrs.:

Bury, C. R., B A , B Sc , A I C.
Williams, D. E., B.A , A.I.C.
Cullinane, N. M., B.Sc., A.I.C.
Davies, C. W , B Sc.
Howell, O. R , B.Sc.
Roberts, H. Medwyn, B.Sc.

Classics

Marshall, J. W., M.A. Glas. and Ox. (Greek) Prof
Rose, H. J , M.A. Ox., B.A. McG. (Latin) Prof.
Jenkins, E. D. T., M.A. Ox. Lectr.
Gordon, Miss M. L., M.A. Asst. Lectr.
Temperley, F., B.A. Camb Asst. Lectr.
Pope, R. A., M.A. Camb. Asst. Lectr.

Economics and Pol. Science, v. also Politics [Prof.
Lewis, E. A., D.Sc. Lond., M.A., D.Litt. (Lectr in Palæog.)
Rees, J. Morgan, M.A. Asst. Lectr.
King, William, B.A. Tutor.

Education

Chapple, C. R., M.A. Lond. Prof.
Dalrymple, Maggie, B.Sc. Lond. and Wales Lectr.
Smith, Frank, M.A. Camb., B.A., B.Sc. Manc. Lectr.

Griffiths, Olivia, B.A. Asst. Lectr.
Amiss, Margaret, M.A. Col., B.A. Asst. Lectr.
Hughes, John, B A. Asst. Lectr.
Jones, Gwenan, B.A Asst. Lectr.
Bonney, H., B.A. Lond. Tutor.
Sayce, R U., B.A. Tutor.
James, T. J., M A. Tutor.
Thomas, R. A., B.A. Tutor.
Pugh, O W., B Sc. Tutor.
Jones, Dan R. Instr. in Art.
Stimson, Capt. H. F. Instr. in Physical Training
Fisher, Miss N. Instr in Dom. Sc.
Fontaine, Miss M. Asst Instr. in Dom. Sc.

English Language and Lit.
Atkins, J. W. H., M.A. Camb. and Lond. Rendel Prof
Winstanley, Lilian, M.A. Manc. Lectr.
Parry, W. D., M.A. Asst. Lectr

French Lang. and Lit. and Romance Philol. [Prof.
Barbier, J. L. A., L. ès L. Paris
Thomas, A. B., D. de l'U. Lyon, M.A. Lectr.
..... Lectr.
Phillips, Eva M., B.A Asst. Lectr.

Geography
Fleure, H. J., D.Sc. Prof.
Whitehouse, W. E., M.Sc. Lectr.

Geology
Pugh, W. J., O.B.E., B.A. Prof.
..... Lectr.
Challinor, J., B.A. Asst. Lectr. & Demr.

German
Evans, David, M.A. Lectr.
Rees, Hermia, M.A. Asst. Lectr.

Hebrew and Arabic
..... Prof.

History
Edwards, Ed., M.A. Camb. and Lond. Prof.
Jane, L. C., M.A. Lectr.

History, Colonial [Prof.
Roberts, T. Stanley, M.A. Camb.

Law, English [Prof.
Levi, T. A, M.A., B.C.L. Ox., LL.B. Lond., Bar.-at-Law
Lewis, Malcolm M., B.A., LL.B. Camb. Asst. Lectr.
Parry, D Hughes, B A., LL.B. Wales and Camb. Asst. Lectr

Logic and Philosophy
Jones, W. Jenkyn, M.A. Camb., B.A. Lond. Prof.
Reid, L. A., M.A Edin. Asst. Lectr.

Mathematics, Pure
Young, W. H., M.A., Sc.D. Camb., F.R.S. Prof.
Johnston, W. J., M.A. Belf., B.A. Dub. Asst Prof.
Walmsley, C., B A. Camb. Asst. Lectr.
Dienes, P., D.Sc. Paris Asst. Lectr.

Mathematics, Applied
Schott, G. A., B.A. Camb., D.Sc. Lond. Prof.
Unthank, H. W, B.A. Camb. and Lond. Asst. Lectr.

Music, v also Botany
Davies, H. Walford, Mus D Camb., LL.D. Leeds, F.R C.O. Prof.
de Lloyd, David, Mus.D. Dub., B.A., Mus.B. Lectr.
9 Assts.

Oceanography
Jenkins, J. Travis, B.Sc. Lond., Ph.D. Kiel, D.Sc. Hon. Lectr.

Palæography v. Econ.

Philosophy v. Logic

Physics
Owen, Gwilym, M.A. Camb., M.Sc. Manc., D.Sc. Liv. Prof.
Tunstall, N., B Sc. Lectr.

Asst. Lectrs. & Demrs :
Sulston, L. E.
Mandell, W., B.Sc Lond.
West, J., B.Sc.

Politics, Internat. [Wilson Prof.
Zimmern, A. E., M.A. Ox.
Herbert, S. Asst. Lectr.

Welsh
Parry-Williams, T. H., M.A. Wales, B.Litt. Ox. Prof.
Jones, T. Gwynn, M.A. (W. Lit.) Prof.
Lewis, Timothy, M.A. Manc., B.A. Reader (Celtic Philol. and Palæog.).

Zoology, v. also Ocean.
Laurie, R. D., M.A. Ox. Lectr.
Carpenter, Miss K., B.Sc. Lond. Asst. Lectr.
Ritchie, W., D.Sc., B.Sc. Aber. Asst. Lectr.
Horsman, Miss E., M.Sc. Liv. Fisheries Naturalist.

Extra-Mural Studies
Morgan, Herbert, M.A. Bris. Director.

GENERAL INFORMATION (v. also p. 179)

Founded in 1872, the College was incorporated by Royal Charter in 1889, and is a Constituent College of the Univ. of Wales. Its main building and Students' Hostels are on the sea front, facing Cardigan Bay.

LIBRARIES. College, 35,000 vols., including the collection of Sir John Rhys. Access to the National Library of Wales founded in 1905, 250,000 vols., rich in Welsh and other Celtic books and MSS. MUSEUMS: Archæol., Bot., Chem., Ethnog., Geog., Geol., Zool. The Chemistry LABORATORIES, erected in 1907, are the most complete in Wales. Agric. Expl. and Plant-breeding Stations and Training Farm.

DEPARTMENTS. Arts and Science (including International Politics), Agriculture, Law, Music, Teaching (Elem. and Secondary). A special feature is the ample provision for instruction and research in Agric. All Agric. education in 7 counties is organized by the College. A Chair of International Politics was founded in 1919.

DEGREE courses in Arts, Science, Law, Music.

College Diploma courses: Associateship, 2 yrs.; Assoc. in Agric., 3 yrs.; Dairying, 2 yrs.

Courses in Science meet the requirements of the first year of Medical study and the examns. of the Pharmaceutical Society.

Post-graduate courses (1 yr.) for Teachers (Elem. and Secondary), and in Agric.

RESEARCH work is systematically carried on in Agric. Botany and Agric. Chem. (whole-time Research Botanist and Chemist), Chem., Geol., Physics, Zool., etc.

FEES for tuition in Arts, £13 per session; Science, £17. Research students, 5 to 8 gs.

SCHOLARSHIPS FOR GRADUATES. 4 for Research, value £27 to £54, open to Colonial and Foreign students as well as to students of the College. *See* also under Univ.

RESIDENCE. Board and lodging at Hostels: men—45 gs., women—44 to 56 gs. per session. Accommodation in Hostels for 60 men and 300 women.

UNIVERSITY EXTENSION. Local lectures and short courses in Agric.

subjects; Travelling Dairy School; Tutorial Classes in Econ., Lit., Hist., Welsh Psychology, etc.; Summer School annually in Aug.

AFFILIATION. The Coll. is affiliated to Ox. and Camb., and is recognized by Edin. and N.U.I., by the R.C.P. and S. Eng. and Edin., the F.P. & S. Glas., the R.C.P.I., the Inst. Chem., and the Surveyors' Instn.

PUBLICATION: *Calendar* (Jan.), 1s 6d.

THE YEAR 1919–20

BENEFACTIONS. For Scholp. in Geog., £300; new Chairs, £42,500; Dept. of Music, £24,000, Museum, £5000; Extra-Mural Classes, £10,000; Plant-breeding Inst., £20,000; J. Francis legacy for Scholp., £1000.

NEW DEVELOPMENTS. Wilson Chair of International Politics; Chairs of Geog., Music, Welsh Lit.; New posts of Academic Secretary and Director of Extra-Mural Studies; Plant-breeding Station; Teachers' Training Course in Music; special courses of lectures on Internat. Politics.

ADDITIONS TO BUILDINGS, ETC. Agric Dept. with labs. and lect. rooms (new buildings and extensions; several buildings purchased). Farm bought. Accommodation in Chem., Phys., and Bot Depts. nearly doubled Houses acquired for hostels and staff quarters Club room for men students, and Senior Common room for staff provided. Buildings for Zool. Dept under construction.

UNIV TUTORIAL CLASSES held in 19 centres; attendance, 480. 263 students attended Summer School.

NUMBER OF STUDENTS. Full-time preparing for Bachelorship or Diploma—1032, including 281 women (1916–17 to 1918–19: 250, 298, 410) Part-time, 95. Research, 21. New students for 1920–21, 260.

NUMBER OF DEGREES OBTAINED in 1916–17, 1917–18, 1918–19, 1919–20: B.A.—33, 37, 62, 76; B.Sc.—7, 7, 22, 52; M.A.—8, 5, 6, 4; D.Sc. and M.Sc.—1, 0, 6, 1.

RETIREMENTS. Mary Brebner, Lectr. in German; G. T R. Evans, Asst. Lectr. Phys.; Mrs. F. N. James, Lectr Bot.; Stanley Smith, Lectr. Geol.; Mlle. Trux, French Asst.; J. B. Whitworth, Asst. Lectr. Chem.; H. H. Payne, Lectr. Phys.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

PRESIDENT OF THE COURT OF GOVERNORS AND CHAIRMAN OF THE COUNCIL—Rt. Hon. LORD KENYON, K.C.V.O.

PRINCIPAL—Sir HARRY R. REICHEL, M.A., LL.D.

SECRETARY AND REGISTRAR—Major W. P. WHELDON, M.A., LL.B., D.S.O.

BURSAR—Capt. RICHARD WILLIAMS.

WARDEN OF THE WOMEN STUDENTS—MURIEL O. DAVIS.

PROFESSORS, LECTURERS, ETC.

Agriculture
White, R G., M.Sc. Leeds Prof.
Roberts, E. Jones, B.Sc. Asst. Lectr.

Agric. Botany
Roberts, R. Alun, B.Sc. Adviser.
Whitehead, T., A.R.C.S. Lectr.

Agric. Chemistry [Adviser
Robinson, G. W., M A. Camb.
McLean, W., B.A., B Sc., A.I.C. Lectr.
Williams, Rice, B Sc Asst Lectr

Agric. County Organizers, 3.
Instructors in Cheesemaking, 8.
Instructors in Dairying, 5.
Instructors in Horticulture, 2.
Instructors in Poultry-keeping, 2.
Instructors in Rural Science, 1.
Instructors in Vet. Hygiene, 1.

Botany
Phillips, R. W., M.A. Camb., D.Sc. Lond., F.L.S. Prof.
Davey, A. Jane, M.Sc. Lond. Lectr.
Purvis, Nora, M.Sc. Asst. Lectr.

Chemistry
Orton, K. J. P., M.A. Camb., Ph.D., F.I.C. Prof.
Watson, H. B., B.Sc. Lectr.

Asst. Lectrs. & Demrs.:
Roberts, I. C., B.Sc.
Soper, F. G., B.Sc.
McKie, Miss P. V , M Sc. Research Asst.

Classics
Hudson-Williams, T., M.A., D.Lit. Lond. (Greek) Prof.
Arnold, E. V., Litt.D. Camb. (Latin) Prof.
Evans, D. Emrys, M.A., B.Litt. Ox Lectr.
Jones, E. Percival, B A. (Latin) Asst. Lectr.

Economics (Tutorial Classes)
Richards, R., B.A. Camb. Organizer & Lectr.
Dodd, A. H., M.A. Ox. Tutor.
Hughes, B. E., B.A. Ox. Tutor.

Education
Archer, R. L., M.A. Ox. Prof.
Paterson, Alice, M.A. Edin., Ph.D. Jena Lectr.
Williams, Ivor Asst. Lectr.
Thomas, Miss M. Asst. Lectr.
Instructors in Drill, Handwork, and Rural Sc.

English Lang. and Lit.
Wright, H. G., M.A. Manc. Prof.
Lewis, Miss G. A., M.A. Tutor.
King, R. W., M.A. Lond. Asst. Lectr.

Forestry
Thomson, T., B.Sc. Lectr.

French and Rom. Philol. [Prof.
Fynes-Clinton, O. H., M.A. Ox.
Perrier, Mlle. J , L. ès L
Asst. Lectr.

German and Teut. Philol.
Stokoe, F. W., M A Camb. Lectr.

History [Prof.
The Principal (Constitutional H.)
Lloyd, J. E., M.A., D.Litt. Ox.
Prof.
Turberville, A. S., M.A., B.Litt.
Ox. Lectr.
Shankland, Rev. T., M A (Mod.
Welsh H) Reader.

Logic and Philosophy
Gibson, J., M.A. Camb. Prof.
Lewis, Miss G. A., M.A. Tutor.
Cameron, Miss A. Asst. Lectr.

Mathematics
Bryan, G. H , Sc.D. Camb.,
F.R S. Prof.
Veitch, Mrs. E. B., M.A. Lectr.
Ferrar, W. L., M.A. Ox
Asst. Lectr.
Mathews, G. B., M.A. Camb ,
LL.D., F.R.S. Spl. Lectr.

Music
Davies, E. T., F.R.C.O. Director

Philosophy v. Logic

Physics [Prof
Jones, E. Taylor, D.Sc. Lond.
Mainstone, P A , M.Sc. Lectr.
Williams, W Ellis, B.Sc
Lectr. in Applied Electricity.
Hughes, Wm., B.Sc.
Asst. Lectr. & Demr.

Religion, History of
Carpenter, J. E., D.D. Spl. Lectr.

Semitic Languages
Davies, T. Witton, B.A. Lond.,
Ph.D. Leip., D D. Gen. Prof.

Veterinary v. Agric.

Welsh
Jones, Sir J. Morris, M.A. Ox.,
LL.D. Prof.
Williams, Ifor, M A.
Prof. of W. Lit.

Zoology
White, P. J., M.B Edin. Prof.
Walton, C. L., M.Sc.
Asst. Lectr. in Z. & Agric. Z.

GENERAL INFORMATION (v. also p. 179)

This College, constituted by Royal Charter in 1885, was made a constituent College of the Univ. in 1893.

The Physics and Chemistry buildings and the Biology laboratory were opened in 1885, and extended in 1892 to provide for Zoology and Agriculture, and in 1911 the Arts dept. was removed to a site, in the heart of the city, of over 10 acres, given by the Corporation. The buildings, including the Great Hall, were opened in 1911 by King George.

LIBRARIES. General, 40,000 vols. Welsh, 15,000, including the largest and best equipped collection of Welsh periodicals in existence. MUSEUMS include special collections of fish, shellfish, and fishing gear and Welsh antiquities. FARM, 675 acres, chiefly sheep pasturage. Dairy.

Special facilities are offered for research in Welsh Language and Literature, Political, Social, Economic, and Religious History of Wales, and allied subjects.

COURSES. B.A. degree courses include among others a "special scheme of study based on the idea of citizenship." Full courses for the B.Sc. in Agric. and Rural Economy, Forestry, and Applied Electricity, as well as in Pure Sc.

College *Diploma* courses in Agric. (3 yrs.), and in Forestry, and Elec. Engineering (2 years). The Agric. course is recognized by the Surveyors' Instn. as qualifying for Students' Proficiency examn. Other courses: First year of Med. study; 1 yr. post-graduate course for Teachers (Elem. and Secondary); for Kindergarten Certif.—Elem. 1 yr., Higher 2 yrs. and 1 term. Shorter courses in Agric. and Dairy work by itinerant lecturers.

FEES. Registration, 1 g. per session. Tuition, per session: Arts, £12; Science, £16; Medicine, 1st year (including lab), £18; Post-graduate courses, non-lab., 4 gs.; with lab., £8; Agric., diploma course, per winter session, £15, 15s. (2 terms); Farm Practical Instruction, £5 (or 2 gs. a term); Special Course in Agric, 5½ gs. a term (winter or spring).

SCHOLARSHIPS, ETC., FOR GRADUATES. Several College awards ranging in value from £22 to £50, open to students of the College. *See* also under Univ.

RESIDENCE. Hostels for 35 men (£47 p.a.) and 150 women. Total cost of living in lodgings and tuition in Bangor, from £55 to £65 per session (1920).

UNIVERSITY EXTENSION, ETC. Local lectures in Literature, Econ., and Agric.; small lending libraries; Tutorial Classes, chiefly for slate-quarrymen and miners. The Advisers in Agriculture conduct experiments and give expert advice to farmers and others.

PUBLICATIONS. *Calendar* (Sept.), 1s. 6d.; *Students' Handbook*, 1s.; *College Magazine*, one issue per term, 1s.; Prospectus free.

THE YEAR 1919–20

BENEFACTIONS. T. D. Owen, £10,000 for Hydro-electrics and Applied Electricity; D. Lloyd Roberts Bequest; provision for 20 lectures on History of Religions.

NEW DEVELOPMENTS Temporary Science buildings; whole-time Director and Organizer of Music for both intra- and extra-mural work; project for instruction and research in Hydro-electrics.

EXTRA-MURAL WORK. 12 Tutorial classes. Substantial support from N. Wales Miners' Federation and Quarrymen's Union.

NUMBER OF STUDENTS (1917–18 to 1919–20). Preparing for degrees—110, 233, 406; for diplomas—30, 50, 96, including those in Elem. Training Dept. taking 1 yr course; research—3, 9, 17; occasional—4, 19, 19. Women included in above—110, 122, 159. Three from foreign Univs. New entries for 1920–21—190.

DEGREES OBTAINED (1917–20). B.A.—21, 28, 40; B.Sc.—3, 3, 19; M.A., M.Sc., and D.Sc.—1, 9, 4.

RETIREMENTS. G. Walworth, on apptmt. as Lectr. in Birmingham; W. E. Lloyd, on apptmt. as Agr. Organizer; D. Bryn Jones, on apptmt. as Prof. of Econ. in U.S.A., succeeded by B. E. Hughes, Tutor for Tutorial Classes; J. G. Finlayson, on apptmt. as Lectr. at Winchester Trg. College; Miss E. Hill; W. E. H. Berwick, on apptmt. as Lectr. in Leeds; Miss R. M. Fynes-Clinton; C. Roberts; W. Morris Jones, on apptmt. as Senr. Lectr. at Swansea; Prof. Story, on accepting post under Forestry Commission.

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

PRESIDENT—The Rt. Hon. LORD GLANELY.

TREASURER—D. R. LLEWELLYN.

PRINCIPAL—A. H. TROW, D.Sc. Lond., F.L.S.

REGISTRAR—D. J. A. BROWN.

LIBRARIAN—S O. MOFFET, M.A.

PROFESSORS, LECTURERS, ETC.

Agriculture and Dairying Sc.
Wallace, R. H.
Director of Short Courses, County Lectr. and Organizer.
3 other Teachers.

Anatomy
Hepburn, D , C.M.G., V.D., M.D., C.M. Edin., F R.S E. Prof.
Davies, D. L , M.D., M S. Lond., F R.C.S. Asst Lectr. & Demr.
Wade, J. O. D., M.B., M.S. Lond , F.R.C.S. Demr.
Evans, H., M.A., D.M. Ox., M B , B.S., M.R.C.P. Lond. Demr.

Archæology
Wheeler, R E. M., M.A., D Lit Lond. [Lectr

Architecture
Purchon, W , M.A. Lond , A.R.I.B.A. Lectr.

Botany
McLean, R. C., M.A. Camb., D.Sc. Lond., F.L.S. Prof.
Asst. Lectrs. & Demrs.:
Crow, W. B., B.Sc. Lond., F.L.S.
Holmes, Marion G., B.Sc. Lond.

Chemistry
Thompson, C. M., M.A. Camb., D.Sc. Lond., F.C.S. Prof.
Perman, E P , D Sc. Lond , F I C , F C S Asst Prof.
Bassett, H Ll , B.A. Camb , B.Sc. Lond (Organic C.) Lectr.
Rea, Florence W., B A., M.Sc. Belf. Asst Lectr. and Demr. and Lectr. for Med. students.

Classics, v also German [Prof.
Norwood, G , M.A. Camb. (Greek)
Freeman, Kathleen, B A. Asst Lectr.
Davies, Gwilym A T , M.A. Ox., B.A. (Latin) Prof.
Grundy, W. W , M.A Camb. Asst. Lectr.

Economics and Pol Science
Roberts, W. J., M.A. Ox Fulton Prof.

Education
Phillips, W., M.A. Prof.
Foxley, Barbara, M A. Prof.

Training Depts.: [Lectr.
Watkins, S. H., Ph.D. Leip., M.A.
Saxby, Ida B., D.Sc. Lond. Asst. Lectr.
Jones, E. J., M A. Asst Lectr.
Smith, Annie Asst. Lectr.
Barke, Ethel M., M.A. Dub. Asst. Lectr.

Engineering
David, W. T., M.A. Camb, D.Sc., A M.I.C.E Prof.
Thomas, S., B.Sc. Lectr.
Miller, C. V, B Sc. Lond. Asst. Lectr. & Demr.
Foster, P F, A.M I.M.E. Asst Lectr. & Demr.

English Lang and Lit. [Prof.
Littledale, H., M A., D.Litt. Dub.
Brett, C., M.A. Ox. Lectr.

French
Watkin, M, M.A., L. ès L. Ren., Ph D. Zur. Prof.
Jones, P. Mansell, M.A. Asst. Lectr

Geology
Cox, A. H., M.Sc Birm., Ph D. Stras., F.G.S. Prof.
Asst. Lectrs. and Demrs:
Dingwall, Miss J M. M, M A., B Sc Edin
Heard, A, B Sc. Manc

German
Arnold, F. T., M A. Camb (Asst. Lectr. in Latin) Lectr.

Histology v. Physiol.

History [Prof.
Bruce, H., M.A. Ox., F.R.H S.
Rees, Wm, D Sc. Lond., M.A, F.R.H.S. Asst. Lectr.

Hygiene and Public Health
Walford, E., M.D. Durh., D.P.H. Camb. Lectr.
Williams, E. C, M.D. Durh., D.P.H. Camb. Lectr.

Hygienic Chemistry
Sugden, J. H., M.Sc. Manc., F.I.C. Lectr.

Mathematics
Pinkerton, R. H., B.A. Ox., M.A. Glas. Prof.
Taylor, D. G., M.A. Camb. and Glas., D.Sc. Glas. (Pure M.) Lectr.
Pope, A. H., B.Sc. Asst. Lectr.

Metallurgy
Read, A. A., D.Met Sheff., F.I.C., F.C.S. Prof.
Jones, W. R. D., B.Sc. Asst. Lectr. & Demr.

Mining [Lectr.
Price, S. W., A.R.S.M., M.I.M.E.

Music
Evans, D., Mus.D. Ox. Prof.
Lloyd, J. Morgan Asst. Lectr.

Philosophy, Logic and [Prof.
Scott, J. W, M.A., D.Phil. Glas.
Thorburn, J. M., M A., B Sc Edin. Asst. Lect.

Physics
Selby, A. L., M A. Ox. Prof.
Shaxby, J. H., B.Sc. Lond. Lectr.
Armishaw, Jean C., M.A., B.Sc. Glas. Asst. Lectr. & Demr.
Young, C L., B Sc. Asst. Lectr. & Demr.

Physiology
Brown, T. Graham, M D., D Sc. Liv. Prof.
Burlend, T. H., M.A. Camb, B.Sc. Lond (Histol. & Embryol.) Lectr.
Sheppard, Edith M., B Sc. Asst. Lectr. & Demr. in Histol. and in Zool.

Physiological Chemistry
Harries, D. J., M.D., B.S. Lond., D.Sc., F.R C.S. (Asst. Lectr. and Demr. in P.) Lectr.

Semitic Languages
Robinson, T. H., M.A. Camb., D.D. Lond. Lectr.

Welsh

Gruffydd, W. J., M.A. Ox. Prof.
Lewis, H., M.A. Asst. Lectr.

Zoology, v. also Physiol.

Parker, W. N., Ph.D. Frei., F.Z S. Prof.
Lloyd, J. H., M Sc. Birm. Asst. Lectr. & Demr.

Medicine

Pathology and Bacteriology

Emrys-Roberts, E., M.D. Liv., M.B., Ch.B. Manc. Prof.

Pharmacology, Mat. Med. and

Stevens, W. M., M.D. Lond. Lectr.

Preventive Medicine

Collis, E. L., M.A., M.D. Prof.

GENERAL INFORMATION (v. also p. 179)

Opened in 1883 and incorporated by Royal Charter in 1884, this is now one of the constituent Colleges of the Univ. The Medical School was opened in 1894, the Engineering School in 1896. New College Buildings, containing the Arts and Administrative Blocks and the Drapers' Company's Library, were opened in Cathays Park (wherein the Univ. Offices are also located) in 1909, the Viriamu Jones Memorial Physical Research Laboratory in 1912. Physiological Dept. Buildings were completed and occupied in 1919, the funds being provided by Sir Wm. J. Thomas as part of a scheme of buildings for a Welsh National School of Medicine, which, when completed, will enable students to pursue the whole Medical Course at Cardiff.

LIBRARY: Drapers' Company's, 50,000 vols. MUSEUMS: Anat., Mat. Med., Path., Zool. The National Museum of Wales (Art, Archæol., Zool., Geol., Bot.) is located in an adjoining building. LABORATORIES: Physical Research, with liquid air plant, etc.; Engineering (including 100-ton testing machine); and usual Science and Medical teaching and Research labs. King Edward VII. Hospital (300 beds) is within five minutes' walk of the College.

FACULTIES. Arts, Science, Medicine. *Departments*: Music, Applied Science and Technology, Teaching (Elem. and Secondary). *Short Courses*: Agric. and Dairying Science, Midwifery, Law. A Training School of Domestic Arts is under the joint management of the College and several local governing bodies.

COLLEGE DIPLOMAS. Engineering, Metalliferous Mining, Metallurgy; Welsh Lang. and Lit.; Economics and allied subjects; Music; Social Study and Training; Health Visitors' (H.V.D.). In the Applied Science subjects the qualifying scheme of study covers 3 yrs.; in the other subjects, 2 yrs. A Joint Diploma in Coal Mining is granted by the Coll. and the S.W. and Monmouthshire School of Mines, 4 yrs. residence being required. After a 4 yrs. course students who desire to specialize in certain subjects can take a post diploma course. A Joint Diploma in Mech. Engin., Marine Engin., or Industr. Chem., is granted by this Coll. and the Cardiff Tech. Coll. after a 3 yrs. course. The *Associateship* of the Coll. is given to students who attend the Coll. Classes for not less than 2 sessions, and who graduated at a Univ. in the U.K.

AFFILIATION. The Coll. is affiliated to Cambridge and (through the Univ. of Wales) to Oxford.

SCHOLARSHIPS (Prospectus obtainable from the Registrar). Aid is given

FEES. Annual Composition for tuition—Arts, £12; Science, £16; Music, £12; Applied Science, £16 (Non-associated Counties, £24); Medical, £21 to £30; Research, 5 to 8 gs; Registration, 1 g. p.a.

RESIDENCE. 2 Hostels for women. Sessional Fees, £61 to £71. Board and lodging in the town can (1920) be obtained at about £2 per week.

PUBLICATIONS. *Calendar* (Feb.), 2s.; *Students' Handbook*; *Cap and Gown*.

THE YEAR 1919–20

BENEFACTIONS. Lord Glanely, £25,000, and proceeds of Agric. Show, £2314, for Agric Dept.; R. B. Thomas Bequest, £1050 for Science Labs.; Drapers' Coy., £175; Major J. G. Jones, £100; I. Roberts Bequest, £100; Sch. of Mines, £100; others, £384. 3¼ acres granted by City Council for new buildings for Agric., Physics, and Chem. to cost £180,000.

NEW DEVELOPMENTS. By agreement with National Museum a Joint Apptmt. of Lectr. in Archæology and Keeper of Dept. of Arch. and Hist. has been made. The course in Arch. will be a qualifying course in scheme for B.A. degree. Joint Diploma Courses of Univ College and Cardiff Tech. College arranged for; Joint Diploma courses in Archit. and Commerce projected. Part-time Lect'ship in Archit. arranged with Cardiff Tech. College. Welsh National School of Med. and Dept. of Agric. arranged for. Chairs of Preventive Med. and Tuberculosis provided through benefactions of Miss E. Talbot and Major D. Davies, M.P., and the Misses Davies.

NUMBER OF STUDENTS (1917–18 to 1919–20). Full-time preparing for Bachelorship and Diploma—308, 565, 888, including women—178, 206, 212; post-graduate—21, 29, 34; others—29, 35, 48, and also, attending short courses—102, 237, 459.

DEGREES OBTAINED (1917–20). B.A.—32, 34, 48; B.Sc.—4, 36, 35; M.B. (Lond.)—0, 0, 10; others—3, 9, 20; (in 1919-20: M.A. 4, M.Sc. 4, D.Sc. 1, B.Mus. 1, B.D. 3, B.S. Lond. 7).

RETIREMENTS. W. H. Miles, apptd. Lectr. in Armstrong College; Prof. P. Barbier, succeeded by former Prof. of French in Johannesburg; Prof. Haycraft, succeeded by former Lectr. in Expl. Physiology in Manc.; H. J. W. Hetherington, apptd. Principal, Univ. College, Exeter, succeeded by former Lectr. in Moral Philos. in Glas.; E. E. Hughes, apptd. Head of Dept. of Hist. at Swansea; succeeded by former Lectr. for Board of Educn.; A. E. Trueman, apptd. Head of Dept. of Geology, Swansea; Margaret Levett; Eric Jones, apptd. Lectr. in Engineering in Manc.; H. T. Flint; F. Bacon, apptd. Prof. of Engin. at Swansea, succeeded by former Inspector of Tech. Colleges.

EXTERNAL WORK. University Tutorial classes, 13, with 350 students. Short courses of Evening Lectures in connection with Social Study and Training work, and another course by the Prof. of Econ. Attendance at each course, 14 to 16.

UNIVERSITY COLLEGE OF SWANSEA

PRESIDENT—F. W. GILBERTSON.

PRINCIPAL—T. FRANKLIN SIBLY, D.Sc., F.G.S.

REGISTRAR—EDWIN DREW.

PROFESSORS, LECTURERS, ETC.

Chemistry

Coates, J. E., O.B.E., D.Sc. Birm., M.Sc., F.I.C. Prof.
Hinkel, L. E., M.Sc. Lond , F.I.C. Senr. Lectr. (Organic C.).
Hopkins, D. G., B.Sc., A.R C S. Lond. Senr. Asst. Lectr.
Ayling, E. E., B.Sc. Lond. Asst. Lectr.

Engineering

Bacon, F., M.A. Camb., A.M.I.C.E., M.I.M.E., M.I.E.E. Prof.
Isaacs, R. G., B.Sc. Lond., A.M.I.E.E. Senr. Lectr. (Elec. E.).
Davies, J. Ll., B.Sc. Lond. Asst. Lectr.

Geology

Trueman, A. E., D.Sc. Lond., F.G.S. Lectr. (Hd. of Dept.).

History

Hughes, E. E., M.A. Ox., B.A. Lectr. (Hd. of Dept.).

Mathematics

Richardson, A. R., B Sc Lond , A.R.C.S. Prof
Marshall, J., M A., D Sc St And., B.A. Camb. Senr. Lectr.
Gwynn, G. M., B Sc. Lond. Asst. Lectr.

Metallurgy

Edwards, C. A., D.Sc. Manc. Prof.
Coe, H. I., M Sc. Birm & Wales Senr. Lectr.
Norbury, A. L., M.Sc Manc. Asst. Lectr.

Physics

Evans, E. J., D.Sc. Lond., B.Sc., A.R.C.S. Prof.
Jones, W. Morris, B.A. Camb., M Sc. Senr. Lectr.
Hilditch, Mrs. K. G., B.Sc. Lond. Asst. Lectr.

GENERAL INFORMATION (v. also p. 179)

Incorporated by Royal Charter, dated Jan. 21, 1920, the College was made a constituent College of the Univ. of Wales under the terms of a Supplemental Charter granted to the Univ. on Aug. 13, 1920.

The Municipality of Swansea has given a magnificent site of 45 acres in Singleton Park, and has granted the use of the mansion in the Park (pending the realization of a College building scheme) for the housing of the Library, Assembly Hall, Common Rooms, and Refectory, in addition to the Arts depts. and the administrative offices. The Science depts. are temporarily housed in the buildings of the Swansea Technical College. The foundation stone of the College buildings was laid by H.M. the King on July 19, 1920.

FACULTIES. Science and (to be opened next session) Arts. Departments: Metallurgy and Engineering, and (from next session) Training of Teachers (men and women) for Elem. and Sec Schools.

DEGREES AND DIPLOMAS. Courses (3 years) of study are provided in preparation for the degrees of the Univ. in Pure and Applied Science and (from next session) Arts; also in preparation for the College diplomas in Metallurgy and in Engineering.

FEES. For tuition in Pure or Applied Science, £16; Registration, £1 : 1s. p.a.; for Research from 5 to 8 gs.

RESIDENCE. A list of Registered Lodgings is kept by the Registrar.

UNIVERSITY COLLEGE, EXETER

VISITOR—ALEX HILL, M.A., M.D. Camb., F.R.C.S. (late Master of Downing College, Cambridge).

PRINCIPAL—H. J. W. HETHERINGTON, M.A. Glas.

REGISTRAR AND SECRETARY—A. K. WOODBRIDGE.

PROFESSORS, LECTURERS, ETC.

Art [School of Art.
Morrall, W. B., A.M.C. Headmr.

Biology
Sager, J. L., M.A. Camb. Lectr.
Cumming, A. H., A.R.C.S I. Lectr.

Chemistry [Prof.
Lewis, W. H., M.A. Ox., F I C.
King, Miss R., M.Sc. Lond. Lectr.
Hathaway, T. H., B.A. Ox. Lectr.

Classics
Fletcher, F., M.A. Ox. Lectr.

Education [Lectr.
Wortley, H. A. S., M.A. Camb.
Walker, Miss A. J., M.A. Birm., B.A. Lond. Lectr.
Story, Miss W. Lectr.
Ashdown, Miss E., B.A. Lond. Lectr.
Mathias, Miss S. Y., M.A. Liv. Lectr.
Owen, W. J., M.A. Lectr.
Williams, W. J., B.A. Lectr.
Davey, Mrs. K. W. Mistress.

English
Morgan, A. E., M.A. Dub. Prof.
Gollancz, Prof. Sir I. (v. p. 86) Hon. Leofric Lectr. in Old E.
Wright, Miss B. D., M.A. Edin. Lectr.
Pugh, Miss F. M., M.A. Lond. Asst. Lectr.

Geology and Geography
Clayden, A. W., M.A. Camb., Visiting Director.
Lewis, W. S., B.Sc. Lond. Lectr.

History and Economics
Harte, W. J., M.A. Oxon. Prof.
Patterson, E. J., M.A. Camb. Lectr.
Easterling, Miss R. C., M.A. Wales Lectr.

Mathematics
Benny, L. B., M.A. Cantab., B.A. Lond. Lectr.
Cook, Miss H. M., B.A. Lond. Lectr.
Mallison, H. V., B.A. Camb. Lectr.

Modern Languages
Schopp, J. W., M.A. Lond. Lectr.
Lockyear, Miss J. I. Asst. Lectr.
Renaud, E. Asst. Lectr.

Pharmacy
Ware, A. H., Ph.C. Lectr.

Philosophy
The Principal Prof.
Haydock, G. H., M.A. Glas., B.Litt. Ox. Lectr.

Physics
Newman, F. H., M.Sc. Lond., A.R.C.Sc. Lectr.
Martin, F. H., B.Sc. Lond. Asst. Lectr.
Searle, V. H. L., B.Sc. Lond. Asst. Lectr.

GENERAL INFORMATION

The work of this College (founded 1865 and raised to Univ. College rank 1901) falls under the following heads: (1) Univ. Classes preparing for the Pass and Honours degrees in Arts and Science of London, etc. (2) Teachers' Training Dept., preparing for Diplomas of Camb. and Lond. for Secondary Teachers. It is recognized by the Board of Educn. for the training of students as Teachers in Elem. Schools. (3) School of Art, including Design and Life Schools. (4) School of Pharmacy. (5) Evening Classes.

The College Staff conduct Workers' Tutorial Classes and deliver courses of lectures in the south-western district during the winter terms.

A Summer School for prospective Teachers in Day Continuation Schools and others is held in August.

AFFILIATION, ETC. The College is affiliated to the Univs. of Oxford and Cambridge. It is recognized by the Camb. Special Board for Medicine and the Conjoint Medical Board as a place of instruction in Chem., Physics, Biol., etc., and by the Pharmaceutical Society of Great Britain for their qualifying examns.

HOSTELS. For women—Diocesan Church and two undenominational. For men—one.

PUBLICATIONS. The *Calendar*, issued in July free of charge; a Students' Mag. pubd. each term; the *College Field Club Proceedings*.

THE YEAR 1919–20

NEW POSTS. Addl. Lectrs in Educn. (2), Hortic., Mod. Langs., Philos.

NUMBER OF STUDENTS. Full-time, preparing for first degree in Arts, 43, including 27 women; Science, 30 (2 women); Med., 3; for first diploma, 3; for M.A., 1. Total in Univ. Dept., 113 (52 women); Teachers' Training Dept., 160 (104 women); School of Art, 199 (92 women); Evening Classes, 189 (77 women). New admissions to Univ. Dept. for 1920–21, 25.

NUMBER OF DEGREES OBTAINED. M.A., 1; B.A., 4; B.Sc., 8.

RETIREMENTS. W. A. T. Nash, Lectr. in Chem., on accepting post in Secondary School; R. Peers, Lectr in Econ. and organizer of extra-mura work, on accepting similar post in Nottingham, succeeded by former W.E.A. Lectr. in London.

UNIVERSITY COLLEGE OF NOTTINGHAM

PRESIDENT—His Grace the DUKE OF PORTLAND, K.G.
PRINCIPAL—W. H. HEATON, M.A.
REGISTRAR—J. E. SHIMELD.

PROFESSORS, LECTURERS, ETC.

Biology
Carr, J. W., M.A. Camb. Prof.

Lectrs. and Demrs. :
Holden, H. S., M.Sc. Manc. (Bot.).
Bexon, Dorothy, M.Sc. Lond. (Bot.).
Holden, E., M Sc Manc (Zool.).
Hutchinson, Harriet J. (Histology and Physiology).

Chemistry and Metallurgy
Kipping, F. S , Ph.D. Mün., D.Sc. Lond , F I.C., F.R.S. Prof.

Lectrs. and Demrs. :
Prideaux, E. B. R., M.A. N.Z., D.Sc. Lond.
Lambourne, H , B.A , B.Sc Lond , F.I.C.
Firth, J. B., D.Sc. Manc., A.I.C
Laxton, F. E., B.Sc. Lond., A.I.C.
Jinks, J. C., Ph.C.
Stather, Mrs. (Dispensing).
Watson, F. S., M.Sc Manc.
Driver, J. E., B.Sc. Lond.
Bentley, A. O.

Classics and Philosophy
Granger, F. S., D.Lit., M.A. Lond. Prof.
Barker, E. P., M.A. Ox. Lectr. in C.
Adam, E. P., B.A. Lond. ,,

Economics and Commerce
Kirkaldy, A. W., M.A., B.Litt. Ox., M.Com. Birm. Prof.
White, A. J., B.A., B.Sc. (Ec.) Lond. Lectr. in E.
Radford, A., B.Sc. Econ. Lond. Lectr in E.
Howard, S. C. Lectr. in C.
Lindley, T., LL.D. Camb. Lectr. in Comml. Law.
Blythen, S Prof of Acctcy.
Cairns, R G., A C.A. Lectr in Acctcy.
Sanders, H. Lectr. in Pract. Banking.
Kirkham, W. D. S. Lectr in Insurance.
Brookes, R. T. Lectr. in Insurance.
Allen, W. G. Lectr. in Insurance.

Education, v. also Hist.
Henderson, A , B A. Lond. Prof.
Bird, Miss, L.L A. Normal Mistress.
Adam, Anne K. Normal Mistress.
Newton, W. H., B.Sc. Lond. Normal Master.
Drew, A., B.A. Ox. ,, ,,
Ward, Miss Lectr.
Webb, J. H , D.D. Lectr. in Engl.
Walker, Miss A. Lectr. in Needlework.
2 Lectrs. in Phys. Exercises.

Engineering and Technology
Bulleid, C. H., O.B.E., M.A. Camb., A.M.I.C.E. Prof. of E.
Robinson, W., M.E. Belf., M.I.C.E., M.I.M.E. Prof. of T.

Lectrs. and Demrs. :
Westmoreland, J., M.I.M.E. (Drawing and Design).

Richardson, W. A., M.Sc., B Sc. (Eng.) Lond. (Civil E.).
Cotton, H., M.B.E., B.Sc. Lond. (El. E.).
Dickson, J. M., B.Sc.Lond. (M. E.).
Bowley, J W., B.Sc. (Mech. E.).
Wilde, J. H., B.Sc. (Eng.) Lond.
Davis, D., M.A. Edin. (Hosiery)
Bird, A. W., B.Sc. Lond. (Geom. and Applied Mechanics).
23 other Technical Teachers.

English
Bond, R. W., M.A. Ox. Prof.
De Castro, Miss Lectr.
Hewitt, R. M., M A. Ox. Lectr.
Selby, Alice Lectr.

Geology and Geography [Prof.
Swinnerton, H. H., D.Sc. Lond.
Connaughton, Miss, B A. Dub Lectr. in Geog.
Richardson, W. A., M.Sc. Lond. Lectr. in Geol.
Straw, S. H., B.Sc. Lond. Lectr. in Geol.

Hebrew [Lectr
Sanders, H. F., B.A., B.D. Lond.

History
Owen, L. V. D., M A Ox. Prof.
Guilford, E L , M A Camb Lectr.
Becket, Edith M., B.A. Lond. Lectr. in H. and in Educn.
Brameld, Nina, M.A. Lond. Lectr.

Hygiene & San. Sc.
Cotterill, W. H., M.R.San.I.
Sutton, J. A., Cert.R.San.I.
Hughes, W. M., Cert.R.San.I.

Law
Huntsman, E. Director & Lectr.

Mathematics
Piaggio, H. T. H., M.A. Camb., D.Sc. Lond. Prof.
Wells, F. A., B.A. Camb. Lectr.
Green, H. G., B.A. Camb. Lectr.
6 other Lectrs.

Metallurgy v. Chem.

Military Science
Piper, Capt. S. H., D.S O. Dir.
2 Lectrs. and Instrs.

Mining
McMillan, W. H., B.Sc. Glas., M.I.M.E. Prof.
Watkins, W. G., M.I.M E., M.I.Mech.E. Lectr.
Whitaker, J. W., B Sc. Lectr.
Collinson, P. L., B.Sc. Lectr.
Watson, J. M. R., B.Sc. Glas. Lectr.

Modern Languages
Weekley, E., M.A. Camb. Prof.
Lectrs. : [Phonetics).
Clarke, Mrs. Lovell (English
Bourdache, E., B. ès L. (French).
Guigou, Mlle. M. (French).
Schweizer, W. R., Ph.D. (German).
Moroni, Mme. (Italian).
Hewitt, R. M., M.A. Ox. (Portuguese).
Lavrin, J. (Russian and Slavonic).
Chamberlain, G. L., M.A. (Spanish).

Music
Gill, A., F.R.A.M. Prof.
Barber, E. M., L.R.A.M. Lectr.

Philosophy v. Classics

Physics [Prof.
Barton, E. H., D.Sc. Lond., F.R.S.
Lectrs. and Demrs. :
Shaw, P.E., B.A.Camb., D.Sc.Lond. (Dir. Sub-Dept., Metrology).
Simpson, A. H., F.R.M.S.
Piper, S. H., B.Sc. Lond.
Franks, A. H., B.Sc. Lond.
Browning, Helen, M.Sc. Lond.
Davy, N., B.Sc. Lond.
Brookes, A., M.Eng. Manc.
3 other Lectrs. and Demrs. in Telegraphy, etc.

Physiology v. Biol.

Technology v. Engin.

Zoology v. Biol.

Adult Education

Peers, R., M A. Liv. Hd. of Dept.
An Organizer and 4 Lectrs.

GENERAL INFORMATION

The College, opened in 1881, is in the centre of the city. The Free Public Library is at present housed in the College building.

COURSES: For London degrees in Arts, Econ., Divinity, Pure Science, Med., Agric., Engin., and Mining; Associateship of the College in Comm., Geog., Engin., Mining, Mine Surveying (each 3 yrs.); Social Study Diploma (1 yr); Bd. of Educn. Elem. Teachers' Certifs. and Cambridge Secondary Teachers' Diploma; Law Soc.'s Examns.; L.D.S.; Assoc'ships of the Insts. of Chem. and Physics; Colliery Manager's Certif.; Civil Service Appointments; D.P.H.; Social Study Diploma (1 yr.); Certif. in Dispensing (Soc. of Apoth.); Post-grad. and Research courses in Arts and Pure Science. Special English course for Foreigners.

Evening Classes, including some held on Thursday aftn. and Sat. morning and aftn., for London B.Sc., B.Sc. Econ., B.Sc. Engin. and Interm. Arts; St. And. L.L.A.; Comml.; Dispensing and Pharmacy; Engin. and Technological; Mining.

The session for Day Classes is Sept.-July; Evening, Sept.-April.

FEES. Tuition composition, per term: Interm. or Degree courses in Arts, Div., or Econ.—5 gs.; in other Faculties, or Diploma courses in Commerce, Geog., Engin., Mining, Mine Surveying, or for A.I C.—£7 . 10s.; Social Study Diploma (complete course)—£10; L.D.S. or Dispensing—4 gs.; Colliery Managers' Certif.—2 gs.; D.P.H. (complete course)—£15; English course for Foreigners—£4; Registration fee, £1 p.a.; Union fee, £1 : 1s. p.a.

Evening Classes, 12s. 6d. per session.

RESEARCH SCHOLARSHIPS in Arts and Science of from £50 to £75 are awarded annually in Dec. Special facilities for research in all subjects.

RESIDENCE. Mapperley Hall (men) and Cavendish House (women) primarily for Elem. Training students. Waverley House (men) and Hollygirt (women)—inclusive fee, 35s. per week. Registered lodgings, 30s. to 40s. Students are, when possible, placed with private families.

PUBLICATIONS. *Calendar* (Oct.), 1s.; Day and Evening *Prospectuses*, 2d.; *The Gong*, 3 times a year.

THE YEAR 1919–20

BENEFACTIONS. A fund has been opened for the extension of the Univ. Scheme. Donations and promises received amount to over £60,000, including a donation of £50,000 received from Sir Jesse Boot, Bart., of which £30,000 is to be placed to the Building Fund and £20,000 for the establishment of a Chair in Chemistry. The Nottingham City Council have raised their annual contribution to the College from £10,000 to £15,000 p.a., and voted £15,000 to clear off deficits. Colliery owners are contributing on an output basis of .05d. per ton, about £2000. The Notts. County Council have increased their annual contribution from £175 to £500. Manufacturers are contributing not less than £400 p.a. towards the upkeep of the Hosiery Dept.

NEW BUILDINGS AND EQUIPMENT. A new wing added to the Physical Dept. (cost £2000 to £3000) owing to increased number of advanced students.

The College has now the use of two additional adjacent school-rooms, one of which has been fitted up as a refectory. Athletic ground, 12 acres, acquired.

Co-operation. Three members of the College Staff lectured at the Midland Agr. College, and students in the Elem. Training Dept. took their Drawing at the Nottingham School of Art. Under Colonial Office Scheme for investigation of mineral resources of the Empire, Tanganyika and Kenia have been allocated to this College.

Other Developments. Compulsory Students' Union fee of 21s. on registration. Dept. of Economics and Commerce reorganized, College Diplomas in Commerce and Social Study instituted.

Public Lectures. 38 were delivered.

Number of Students. Full-time, preparing for bachelorship, 307, including 51 women; for diploma, 513 (80 women); research workers, 10 (5 women). Total day students, 995 (in 1917–18 and 1918–19: 303, 419). 49 students from France, Switzerland, S. Africa, Egypt, and India. Extra-mural classes, attendance—1054.

Degrees obtained. B.A., 21; B.Sc, 17; B.Sc. Eng., 3; B.Sc. Min., 1. Total, 42 (in 1917–18, 1918–19: 19, 19).

Retirements. W. H. Craven, Lectr. in Chem., on apptmt. as Lectr. in Glas.; H. Todd, Lectr. in Maths., on apptmt. as Lectr. in Bris. Their successors were previously on active service. J. A. Todd, Prof. of Econ, on accepting post under Board of Trade; succeeded by former Prof. of Commerce at Birm.

UNIVERSITY COLLEGE, READING

VISITOR—THE DEAN OF CHRIST CHURCH, OXFORD.

PRESIDENT OF THE COURT OF GOVERNORS—J. H. BENYON, M.A., Lord-Lieutenant of Berkshire.

VICE-PRESIDENTS—Sir HALFORD J. MACKINDER, M.A., M P.; Mrs. G. W. PALMER.

CHAIRMAN OF COUNCIL—A. PALMER.

PRINCIPAL—W. M. CHILDS, M.A.

TREASURER—W. A. MOUNT, C.B.E., M.A., M.P.

SECRETARY AND REGISTRAR—F. H. WRIGHT, M.A.

TUTORIAL SECRETARY—H. KNAPMAN, M.A.

PROFESSORS, LECTURERS, ETC.

Agriculture, etc., v. *infra*

Art (Department of Fine Arts)
Seaby, A. W. Prof.
5 Teachers and an Asst. in Drawing and Painting, Design, Modelling, Handicrafts.

Botany, v. also Agr.
Stiles, W., M.A. Camb Prof
Burtt, A. H., D.Sc. Tüb, B Sc Manc. Lectr.
Prankerd, Theodora L., B.Sc. Lond., F.L.S. Lectr.

Chemistry, v. also Agr. [Prof.
Bassett, H., D Sc. Lond, Ph.D. Mun., D. ès Sc. Nancy, F.I.C.
Dodgson, J. W., B.Sc. Lond. Lectr.
Maxted, D. R., B Sc. Lond, A.R.C Sc. Lectr.
A Sessional Lectr.

Classics
Ure, P. N., M.A. Camb. Prof.
Dodds, E. R., B.A. Ox. Lectr.
Haigh, W., M.A., B.Sc. Lond. Lectr.
Leigh, Margaret, M.A. Ox. Lectr.

Commerce
Taylor, H., F.L.A.A. Lectr.
An Asst.

Dairying v. *infra*

Domestic Subjects
Friend, E. May
Lectr. in charge of Dept.
3 Assts. and a Teacher of Dress-making and Needlework.

Economics
Buer, Mabel C., B.Sc. Lond. Lectr.

Education, Primary, v. also Psych. [Sen. Lectr.
Cooke, H. S., M.A. Ox. and Cape
Bolam, Mary, M.A. Dub. Lectr.
Ashford, Faith, B.Sc. Lond.
Lectr. & Teacher of Handwork.
An Asst., a Teacher of Hygiene and 2 Instrs. in Phys. Exerc.

Education, Secondary
Ashcroft, Lucy, M.A. Dub. Lectr.

Education—Physical Training
Morgan, Florence A.
Lectr. in charge.
An Asst.

English Language & Lit. [Prof.
Dewar, R., M A. Glas. (E. Lit.)
Morley, Edith J. (E. Lang.) Prof.
Clark, A. M , M.A. Edin. Lectr.
A Sessional Lectr.

French [Prof.
Desseignet, J , Ag. de l'u. Paris
Salmon, Yvonne M., B. ès L. Lectr.
An Asst.

Geography
Spicer, E. C., M.A. Ox. Lectr.
An Asst.

Geology
Hawkins, H. L., D Sc. Manc., F.G.S. Prof.

German
..... Lectr.
A Sessional Lectr.

History, Modern
Stenton, F. M., M.A. Ox. Prof.
The Principal Hon. Prof.
Sacret, J. H., M.A Ox. Lectr.
Stenton, Doris M , B.A. Lond. Lectr.

Mathematics
Neville, E. H., M A. Camb. Prof.
Ashcroft, Lucy, M.A. Dub. Lectr.
Clatworthy, J. P., B.Sc. Lond. Lectr.
Knapman, H., M.A. Camb. Lectr.
Ternouth, Elsie J., M.A. Glasg. Lectr.
An Asst.

Music
Allen, Sir Hugh P., M.A. Camb., D.Mus. Ox. Visitor of Dept.
16 Teachers.

Philosophy
De Burgh, W. G., M.A. Ox. Prof.
Ward, S. B., B.A. Ox. Lectr.

Physics
Duffield, W. G., B.A. Camb., D.Sc. Manc. and Adel. Prof.
Bond, W. N., M.Sc. Lond. Lectr.
Pearson, R. L., A.M.I.E.E. Lectr.

Psychology
Wolters, A. W. P., M.A. Lond. (also Lectr. in Educn.) Lectr.

Spanish
A Sessional Teacher.

Vet. Hygiene v. Agric.

Zoology
Cole, F. J., D.Sc. Ox. Prof.
Eales, Nellie B., B.Sc. Lond. Lectr.
A Museum Asst.

Agriculture and Horticulture

Agriculture
Pennington, S., B.Sc. Edin., M R.C.V.S. Prof.
Robinson, H. G., M.Sc. Durh. Lectr.
An Instr. in Poultry.

Agr. Botany [Prof.
Percival, J., M.A. Camb., F.L.S.
Erith, Adela G , B.Sc. Lond. Lectr.

Agr. Chemistry, v. also Dairy C.
Neville, H. A. D., M.A. Camb., B.Sc. Lond., F.I.C. Prof.
Murray, J. A., B Sc. Edin. Lectr.
Nicholson, H. H., M.A. Camb. Lectr.
Thompson, J., Ph D Heid., F.I.C. Analyst.

Bacteriology, v. also Dairy B.
Mason, Grace H., N.D.D. Lectr.

Building Construct., etc. [Lectr.
Hitchins, W. W., M.S.A., P.A.S.I.
An Asst.

Dairy Farming [Lectr.
Mackintosh, J., N.D.A., N.D.D.
An Asst.

Dairy Bacteriology
Williams, R. S., M.B., C.M., B.Sc. Edin., D.P.H. Camb. Research Prof.
2 Assts.

Dairy Chemistry
Golding, J., F.I.C. Research Chemist.
An Asst.

Horticulture
Cobb, A. J. Lectr. & Instr.
2 Assts.

Machine Construction
..... Lectr.
3 Assts.

Plant Pathologist
Mosley, F. O., F.L.S. (1 Asst.).

Veterinary Hygiene
Male, G. P., M.R.C.V.S. Lectr.

BRITISH DAIRY INSTITUTE (occupying a building on the College site and controlled by a committee representing the British Dairy Farmers' Assocn. and the College). Manager and Chief Instructor—A. Todd. 2 Asst. Instrs.

GENERAL INFORMATION

"The University Extension College, in conjunction with the Schools of Science and Art, Reading," was opened in 1892 and incorporated under the Companies Acts in 1896, and became the University College, Reading, in 1902 It has an endowment of £250,000.

LIBRARY, 26,000 vols. MUSEUMS: Zool. and Hist. and Archæol. LABORATORIES: Bot., Chem., Geol., Physics, Psych., Zool. Fine Art Studios. School of Music. Gymnasium. Two farms (359 and 141 acres) and Hortic. Station.

FACULTIES. Letters, Science, Agric. and Horticulture (associated with which are the National Inst. for Research in Dairying and British Dairy Inst.).

DEPARTMENTS: Fine Arts, Music, Domestic subjects.

ADMISSION. Candidates for Degree courses must matriculate before admission. Entrance examn. for Diploma courses in Agric., Dairying, Hortic., Domestic subjects.

DEGREE COURSES are provided for the London B.A., M.A., B.Sc. (Pass and Hons.), B.Sc. in Agric. (3 yrs.) and Hortic. (4 yrs.), the Mus.B. of Dub., Durh., Lond., and Ox., and the 2nd examn. for Med. degrees, Pt. I., of London.

COLLEGE DIPLOMA (Associateship) COURSES: 2 yrs.—Agric., Commerce, Dairying, Domestic subjects, Hortic., Letters; 3 yrs.—Fine Art, Music, Distinction in Agric., Dairying, Domestic subjects, or Hortic.

OTHER COURSES for College Certifs. in Agric. (6 mo.), Commerce, Domestic subjects, Embroidery, Geog., Hortic., Leather or Metal Work, Phys. Training, Secretarial subjects, Wood-carving (1 yr.); for the 1st examn. of the R.C.P. and R.C.S., the Camb. Teachers' Certif. (1 yr.), British Dairy Farmers' Assocn. examns. (6 mo.), L.R.A.M., A.R.C.M., etc.; Special courses in Illustration and for women teachers of Phys. Training in Continuation and Central Schools.

FEES. For Tuition: Degree or Diploma course—Arts, £25 p.a., Sc., £30 p.a. (Fine Arts, £18); Certif. course—£18 to £30.

SCHOLARSHIPS, ETC., FOR GRADUATES. Two Research Fellowships of £125 each, and several Scholarships in connexion with the HALLS OF RESIDENCE,

which provide accommodation for 400 students, men (£80 per session of 30 weeks) and women (£54 to £64). Sanatorium attached.

UNIVERSITY EXTENSION, ETC. Agriculturists are helped by correspondence, visits, local lectures, examination of diseased plants, etc. Evening classes are held in Machine and Building Constn., Builders' Quantities, and most of the subjects in which Day courses are provided. Tutorial classes are held in connexion with the W.E.A.

PUBLICATIONS. *Calendar* (Sept.), 6d. ; *Tamesis* (students'), terminally.

THE YEAR 1919–20

BENEFACTIONS AND GRANTS. Lady Wantage Bequest, £1000 and 7500 books ; £211 for Archæological research. Dorset County Council became a contributor, and grants from other contributing local authorities were more than doubled.

NEW DEVELOPMENTS. A second farm (359 acres) was acquired, and will be used for Dairy Research

SUMMER COURSE in Agriculture for ex-Service men receiving training under a County Council.

NUMBER OF STUDENTS. Full-time, preparing for first degree, 192, including 102 women ; for first diploma, 292 (211 women) ; post-grad. and research, 5. Other day students, 433 ; evening, 684

DEGREES OBTAINED (Univ. of London). Arts and Science, 11 ; Agric., 4.

THE UNIVERSITY COLLEGE OF SOUTHAMPTON

PRESIDENT—CLAUDE G. MONTEFIORE, M.A.

VICE-PRESIDENTS—Sir BEETHOM WHITEHEAD, K.C.M.G., M.A.; ALEX HILL, M.A., M.D.

TREASURER—Sir H. MILNER-WHITE, M.A., LL D Camb.

PRINCIPAL—THOMAS LOVEDAY, M.A.

REGISTRAR—D. KIDDLE.

PROFESSORS, LECTURERS, ETC.

Art

Conway, Miss E. I., A.R.C.A Lectr.

Botany

Mangham, S, M.A. Camb Prof.
Loader, Miss F. M., B Sc Lond. Lectr
Moore, Miss E. S, B.Sc. Lond. Asst Lectr.

Chemistry

Boyd, D. R., D Sc Glas, Ph D., F.I.C. Prof.
Smith, A. E. Clarence, B.A. Camb. Lectr.
Paton, F. J., B Sc Birm. Lectr.
Smith, F. J., B.Sc Lond. Demr.

Classics

Forsey, G. F., M.A. Lond. Lectr.

Commerce

Scholfield, A., M.Com. Manc. Lectr.
Plummer, A, A.C.I.S Asst. Lectr.

Education and Philosophy

Cock, A. A., B.A. Lond. Prof.
Dudley, G., B.A., LL B. R.U.I. Lectr.
Fox, Miss A. G, B.A Lond. Lectr.
Chatterton, Miss M. C, L.L.A. St. Andd. Lectr.

Engineering, Civ and Mech

Eustice, J, B.Sc. Lond., A R.S M, A.M I C.E. Prof.
Mann, E. E, M Sc Leeds, A.M.I.C.E Lectr.
James, H G., B Sc. (Eng) Lond. Asst.
Ford, G. P. Demr.
Field, F.

Engin., Elec, v. Physics

English

Margoliouth, H. M., M.A.Ox. Prof.
Aubrey, Miss E. R, M.A. Lond. Lectr.
Mackie, W. S., M.A. Aberd., B.A. Ox Lectr.

Geography

Barker, W. H., B.Sc. Lond. Lectr.

Geology and Zoology

Sherriffs, R., D.Sc Aberd. Lectr.

History and Political Econ.

Lyttel, E S., M.A Ox. Prof.
Horrocks, J. W., D.Lit. Lond. Lectr.

Hygiene for Men

McKaig, Andrew, M.B., Ch B. Edin. Lectr.

Hygiene for Women
McKaig, Mrs. Andrew, M.B., Ch.B. Edin. Lectr.

Mathematics, Pure and Applied
Watkin, E. L , M.A Camb. Prof.
Davis, H. J., B A. Camb. Lectr.
Trout, Miss A. M., B.Sc. Lond. Lectr.

Music
Leake, G , Mus Bac., F.R.C.O Prof

Physics & Electrical Engineering
Stansfield, H., D.Sc. Lond , A.M.I.E.E. Prof.
Spary, P. G., B Sc Lond., B. Eng. Sheff., A.M I.E E. Lectr.
Tomlinson, H. J., B.Sc. Lond., A.I.E.E. Lectr.
Chester, C. E., B. Eng. Sheff.

Romance Languages and German
Patchett, E. W., B.A. Camb. Prof.
Hamilton, Miss G. Lectr.

Spanish
Lindsay, B., Lic es Artes, Valladolid Lectr.

Zoology, v Geol

GENERAL INFORMATION

Founded 1850; opened as the Hartley Institute, 1862. Incorporated as the Hartley University College in accordance with a scheme of the Board of Education, 1902.

Classes in Arts and Science prepare for the degrees of the Univ. of London; a Commercial course for the B.Sc. (Econ) and B and M.Com. The Coll. has a Dept. of Engineering—Civ , Mech., and Elec. It provides courses for Elem. and Secondary Teachers, for entrance into the Civil Service, the first year of Med. Study, Pharmacy, Surveying, etc. It is recognized as a Training Coll. for Elem. Teachers. It is affiliated to the Univ. of Camb. Through its Evening Classes (attended by upwards of 600 students) it performs the function of a Technical Institute.

ADMISSION. The minimum age for both Day and Evening students is 16. Each full-time student is placed under the supervision of a member of the Staff, who acts as his Tutor.

FEES. The sessional fee is £25 for Courses in Arts, £30 for Courses in Science or in Engineering.

RESIDENTIAL FACILITIES. Highfield Hall, a Hall of Residence—Women. Warden—Miss E. R. Aubrey, M.A.

A group of huts erected for the accommodation of medical officers and nurses during the occupation of the College buildings as a military hospital has been converted into a hostel for 40 men students.

PUBLICATIONS. *Handbook*, pubd. in Sept.; *Hartley Mag.*, terminal, 6d.

THE YEAR 1919–20

BENEFACTIONS. Sir Henry and Lady Milner-White, for furniture of Women's Common Room, £250. Trustees of the late T. F. Obree, £5500.

SPECIAL EVENT. The new buildings on a site of 11 acres, opened by Lord Haldane, Lord High Chancellor of Gt. Britain, on June 20, 1914, and lent to

the Army Council as a temporary military hospital, were taken into occupation for College purposes during the summer of 1919. 30 huts erected in connexion with the hospital have been purchased from the Government, and are now used as additional laboratories, etc.

UNIVERSITY EXTENSION. Three short courses were given in Southampton by members of the Staff.

NUMBER OF STUDENTS, 1917–20: Full-time, preparing for the B.A. or B.Sc. degree—men, 26, 53, 99; women, 24, 29, 45; for Diplomas, Certificates, etc.—men, 12, 51, 113; women, 51, 54, 65.

DEGREES OBTAINED, 1917–20. B.A.—4, 2, 11; B.Sc.—1, 1, 7.

DEATHS (d.) AND RETIREMENTS (r.). Baldwin-Wiseman, W. R., M.Sc., Lectr. in Engin., r.; Crawford, T., M.A, Lectr in Classics, d.; Fawcett, C B., B.Litt. Ox., B.Sc. Lond., Lectr. in Geog., r. (on appointment as Lectr. in Geog. in the University of Leeds); Hill, Alex, M.A., M.D., Principal, r.; Marle, E. R., B.Sc., Lectr. in Chem, r.; Parker, T. A, A.R.I.B.A., Lectr. in Archit., r.; Phillips, T., M.Sc., Lectr. in Maths., d.; Steel, Miss M. J., Lectr., r.; Sutherland, Prof G. K., r, on apptmt as Inspr, succeeded by Mangham from Armstrong; Turner, Miss E M., Lectr., r., on apptmt. as Lectr. in Bedford Coll.; Hunt, Miss B. E., Demr., r.; Eastwood, A., Lectr., r.; Moor, Miss E., Asst. Lectr., r.; Masom, Prof. W. F., d.

THE SCOTTISH UNIVERSITIES

ST. ANDREWS ABERDEEN
GLASGOW EDINBURGH

REPRESENTATIVES IN PARLIAMENT

Sir WM. W. CHEYNE, Bart., K.C.M.G., M.B., F.R.C.S., LL.D., F.R.S.; D. M'COIG COWAN, M.A.; Rt. Hon. Sir HENRY CRAIK, P.C., K.C.B., M.A., LL.D.

IN CONSTITUTION these 4 Universities have under the operation of the Univs. (Scotland) Acts, 1858 and 1889, been to a great extent assimilated. By the former Act 2 new bodies, called the Univ. Court and General Council, were instituted; by the latter a Committee of H.M.'s Privy Council was constituted, and an Executive Commission was created with extensive powers, which it continued to exercise till the end of 1897. These Commissioners issued ordinances, *inter alia*, for degrees, for the instruction and graduation of women, for special study and research, and for the constitution of a Students' Representative Council with power to petition the Senatus Academicus and the Univ. Court.

The *Chancellor* is elected (for life) by the General Council, of which he is President. He is empowered to nominate a *Vice-Chancellor*, who may confer degrees in his absence, but cannot discharge any other of his duties. The Vice-Chancellorship is at the present time held in each Univ. on the Chancellor's nomination by the *Principal*, who is appointed by the Crown (except in Edinburgh) and is President of the Senatus Academicus, and, in the absence of the Rector, of the Univ. Court. The *Rector* is elected every 3 years by the matriculated students. He is the official President of the Univ. Court.

The *University Court* consists of the Rector, Principal, the Lord Provost of the City (in St. And. the Provost of St. Andrews and Lord Provost of Dundee), and Assessors appointed by the Rector, Chancellor, Senatus, General Council, and (except in St. Andrews) Town Council. In St. Andrews the Principals of St. Mary's Coll. and Univ. Coll., Dundee, are also included in it. There is provision for the representation of other affiliated Colleges. The Court, a body corporate with full power to administer the property belonging to the Univ., is a Court of Appeal from the Senatus and has power, since the expiration of the powers of the Commrs. under the Act of 1889, to found new chairs with the approval of the Univs. Committee and make other ordinances with the approval of H.M. in Council. It has, *inter alia*, powers to appoint professors whose chairs are in the patronage of the Univ., examiners, and lecturers; to define the nature and limits of a professor's duties under his commission; and to recognize for graduation purposes the teaching of any College or individual teacher, under the regns. providing for such recognition.

The *Senatus Academicus*, consisting of the Principal and the whole of the Profs., is entrusted with the regulation and superintendence of the teaching and discipline of the Univ. The administration of the Libraries and Museums is entrusted to Joint Committees elected two-thirds by the Senatus and one-third by the Court.

The *General Council* consists of the Chancellor, the members of the Univ. Court, the Profs. and the Graduates of the Univ. It meets twice a year and may hold special meetings at the instance of the Chancellor. Proposed improvements in the arrangements of the Univ. must be submitted to the Council for their consideration.

The Graduate Electors of the Universities together return three *Members of Parliament.*

FACULTIES. In all the Univs.—Arts, Science, Divinity, Medicine. In all except St. Andrews—Law. In Edin. only—Music.

SESSIONS. Oct. to March and April to May or June. In Arts and Med. the period Oct.-June is divided into 3 terms. In Divinity there is no regular summer session at Glas. or Aberd.

ADMISSION (v. also p. 4). The Preliminary Examn. Regulations prescribe for a candidate for a first degree in Arts or Science or Medicine that before entering on the curriculum he pass on specified standards an examn. in (1) English; (2) Latin or Greek; (3) Maths.; (4) another (approved) language or Dynamics; provided that Science and Medical Students may substitute French or German for Latin or Greek, and candidates for the B.Sc. in Engineering need not pass before entering on the curriculum, but only before taking any part of the First Science Examn.

Exemption (*pro tanto*) is granted in consideration of having passed approved equivalent examns. Candidates from abroad, whose native language is other than English, must pass a Special Examn. in English (held in March and Sept.; in set works and an oral examn.). Candidates from the British Empire overseas, whose native language is English and who have passed examns. which would admit them to Univs. or Tech. Colleges affiliated to Univs. in their own country, will be exempted, but candidates for degrees in Engineering must show they have a sufficient knowledge of Mathematics (*e.g.*, if from India, such as is implied by a satisfactory pass in the Interm. Examn. of an Indian Univ.). Indian students must have passed an Interm. or Final Arts Examn. Similarly the Baccalauréat-ès-Lettres or ès-Sciences will exempt from the Prelim. Examn. for Arts or Science courses respectively or for Medical courses; and Certificates of Maturity or Grades similar to the French Baccalauréat which would entitle the holder to enter upon a regular course of study in the Univs. of his own country will similarly exempt other students from the continent of Europe.

N.B. A Certificate submitted as proof of title to admission to Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy, Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

Argentine Certificates giving admission to the Univ. of Buenos Ayres, the B.A. degree of St. John's, Shanghai, the first-class certificates of the Anglo-Chinese College, Amoy, and, if including Arabic, English, Maths., and—for Arts courses—French, the Egyptian Secondary Education Certificate, have been recognized as exempting from the Prelim. Examn.

Applications for exemption on the ground of having passed any of the above-mentioned examns., *or on other grounds*, should be addressed to the Secretary of the Entrance Board, 81 North Street, St. Andrews.

DEGREES and courses leading thereto (v. also p. 6). The *M.A.* course (there is no B.A.) extends over 3 yrs. and, except at St. Andrews, includes (for the ordinary degree) subjects from 3 of the 4 departments of the Faculty, namely Lang. and Lit., Ment. Philos., Science, Hist and Law. A candidate for the degree must not only have regularly attended, but also have duly performed the work of the classes in the qualifying courses. The first 2 yrs. may be taken in any of the Scottish Univs. The Senatus may accept attendance given and examns. passed at other Univs. specially recognized for the purpose, provided that qualifying courses for at least 2 yrs. are attended and the Degree examns. are passed in the Univ. granting the degree. For the purpose of reckoning duration of study an academic yr. is constituted by attendance on at least 1 course (Glas. and St And., 2 courses) of study in each of the 3 terms. The degree is never conferred *honoris causa*.

The *B.Phil.* and *B.Litt.* are conferred only by St. And. A candidate for either of these degrees must take the M.A. either before or along with it. The standard of the Final examn. is that of the M.A. Honours.

The *B.Com.* conferred by St. And., Aberd., and Edin., may be taken, under conditions as to place of study similar to those for the M.A., after courses covering at least 9 terms.

The *Ed B.* involves a 2 yrs. course subsequent to the first 3 yrs. of study for a previous degree, in addition to Professional training or experience as a teacher.

The practical part of the training of students preparing for the *Teaching Profession* is provided by the several Provincial Committees, which likewise recognize attendance at Univ. classes as qualifying for their certificates.

The B.Sc in Pure Science. The course covers 3 yrs. and includes 7 courses, of which 4 must be taken in the Univ. which is to grant the degree. The other 3 courses may be taken in other Univs. or Institns. approved, or under teachers recognized for this purpose, by the Univ. Court. The standard is that of M.A. Honours. [New Ord. preparing.]

The B.Sc. in Applied Science. Students may graduate in Science in Agric. (Aberd., Edin., Glas.), Applied Chem. (Glas.), Engin. (Edin., Glas., St. And.), Mining Engin. (Glas.), Forestry (Aberd., Edin.), Pharmacy (Glas.), Pub. Health (Edin., Glas.), Vet. Sc. (Edin.). The course for the B.Sc. in Applied Chem. or Vet. Sc. covers 4 yrs., in Pub. Health 18 months (after graduation in Med.), and in other branches 3 yrs.

Higher Degrees in Arts and Science. The D.Sc. in Pure Science, in

Engin. (Edin., Glas., St. And.), Pub. Health (Edin., Glas.), and Vet.Sc. (Edin.), and the D.Lit. are open to graduates of 5 yrs. standing. A thesis is required and, except in the case of a graduate of a Scot. Univ. with an Honours degree (St. And., a graduate of the Univ. granting the degree), research under supervision extending over 2 yrs. in the Univ. which is to grant the degree. These degrees are never granted *honoris causa*.

Divinity. The B.D. examn. of any of the Univs. is open to a graduate in Arts: (1) of the same Univ. who has taken a complete Theol. course in a Scot. Univ. or other specially recognized Institn.; (2) of any Scot. or other specially recognized Univ. who has completed his Theol. course, of which not less than 2 yrs. has been in the Univ. in which he proposes to take the B.D. The D.D. is honorary. Women cannot graduate in Divinity in Edinburgh. The Gifford Lectures in Natural Theology are open to the general public.

Law. The B.L. course (3 yrs.) is open to students who have passed the Arts Prelim. or its equivalent, with Latin (Higher Standard) as one of the subjects. The LL.B. (3 yrs) is open to graduates in Arts of a Univ. of the U.K. or any other specially recognized.

Of the B.L. course 1 yr. and of the LL B. 2 yrs. may be spent in any specially recognized Univ. or School of Law.

St. And. does not at present provide full courses for or grant these degrees The LL D is honorary

Medicine. Three of the requisite 5 yrs. of medical study for the M.B. and Ch B. may be spent in any Univ. of the U.K. or other Institn. specially recognized for the purpose or under a teacher recognized by the Univ. A candidate who has at any such Univ. completed a course and passed an examn. in Chem., Physics, or Biology qualifying for a degree in Science, Arts, or Med. may be exempted by the Senatus from the corresponding part of the M.B., Ch.B. examns. Aberd. and St. And. extend this concession to courses and examns. in Anatomy and Physiology qualifying for a degree in Science (St. And.—or Arts or Med.).

A graduate in Medicine of at least 24 yrs. of age who has, subsequent to graduation, been engaged for at least 1 yr. in attending the Med. (or Surg.) wards of a hospl., or in scientific work bearing directly on his profession, or in the Naval, Milit., Colonial (Aberd , Edin., Glas), or, for the M.D. (St. And.—M.D. or Ch.M), Pub. Health Med. Services, or 2 yrs. in practice not restricted to Surg. (or Med.), and passed the prescribed examn. and submitted a satisfactory thesis, may be admitted M.D. or Ch.M. as the case may be.

Ph.D. See p. 10.

Fees. At present the Matriculation Fee is 1 g. *per annum*; inclusive Tuition fees *per annum* in Arts are 10 gs., in Science 20 gs.; examn. fees for M.A., 5 gs.; B.Sc., 6 gs.; M.B., Ch.B., 22 gs.; graduation, 1 g. Further information is given in the several Univ. sections. In Nov. 1920 it was resolved to raise all tuition fees by one-half in Arts and Science, by one-third in Divinity and Law, and by from one-half to one-third in Medicine, with effect from the Session 1921–22. The Matriculation and Examn. fees will also probably be raised.

RESEARCH OR SPECIAL STUDY may be prosecuted in a Univ. under supervision by persons suitably qualified, whether graduates or not, admitted by the Senatus. Access to and the use of the Univ. laboratories, etc., may be obtained on such conditions as to payment and otherwise as the Univ. Court may determine. The title of Research Fellow may be conferred with or without a stipend on specially distinguished research students.

APPOINTMENTS COMMITTEES have been constituted in all the Univs. to help students to find employment.

SCHOLARSHIPS. Provision for affording Univ. instruction and maintenance to students of small means is probably nowhere more ample than in Scotland. Besides the numerous bursaries, etc., awarded by the Univs., and the Carnegie Trust benefactions (v. *infra*), the Provincial Committees for the Training of Teachers award bursaries, according to the necessities of students, of from £5 to £25, and travelling, hostel, and other special allowances, and Secondary Education Authorities may assist any duly qualified person resident in their areas to enter or attend a Univ., Training Coll., etc.

Scholarships, etc., for Graduates. The following are open to graduates of all the Scot. Univs.: (1) Carnegie Scholarships (£150) and Fellowships (£250) and grants in aid of Research. Application forms supplied by the Carnegie Trust, 14 Hanover St., Edinburgh. (2) Ferguson—six of £80 each for 2 yrs. for graduates in Arts. Ferguson Bequest Fund, 94 Bath St., Glasgow. (3) M'Cunn—four of £100 for 1 yr., renewable, for medical research. M'Cunn's Trustees, 160 West George St., Glasgow. (4) Shaw Philosophical—£150 for 5 yrs. for graduates in Arts (in the Patronage of Edinburgh Univ.).

CONFERENCES of the four Univs. dealt with proposed Changes in the Regulations for the Degree of B Sc. and (Nov. 1920, see above—FEES) with the raising of fees.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Offices at Merchants' Hall, Hanover Street, Edinburgh. Secretary, Jas. Robb; Treasurer, Sir John Ross; Asst. Treasurer, Jas. Davidson.

The annual income of the Trust amounts to £120,000, one half of which is devoted to (A) the improvement and expansion of the Universities of Scotland in the faculties of Science, Medicine, History, and Mod. Langs., and extending opportunities for scientific study and research, and Technical or Commercial Univ. education; the other half to (B) assisting Scottish students in the payment of Univ. class fees. Any surplus not required for (B) in any year is to be devoted to (A). Institutions in Scotland recognized by the Executive Committee of the Trustees as preparing students for graduation or as providing technical or commercial education of University level are entitled to participate as regards (A) and their students as regards (B). Any surplus not required for (A) or (B) may be devoted to Univ. Extension work.

The Regulations for Assistance in the payment of Class fees provide, *inter alia*, that applicants should hold the Leaving Certif. of the Scottish

Educn. Dept. bearing evidence of such preliminary education as is required by the Univs. for their respective graduating curricula. Where for satisfactory reasons such Leaving Certif. has not been obtained, the Exec. Committee may accept instead what they deem equivalent evidence of attainments, provided that no applicant will be eligible who has to pass any further prelim. examn. before completing his graduating curriculum. The annual report of the Exec. Committee contains reports of experts on the work of beneficiaries and lists of papers published by them.

Research Fellowships, Scholarships, and Grants awarded for 1919–20: St. Andrews—26, value £3185; Glasgow—20, value £1946; Aberdeen—14, value £1439; Edinburgh—29, value £4288. Total—89, £10,858.

Class Fees paid for 1919–20: St. A.—£6458 for 431 beneficiaries; G.—£24,497 for 1800; A.—£13,701 for 960; E.—£23,934 for 1721.

Under an Interim Scheme for 1919–20 there was distributed to Univs. and Colls. £79,550 thus: St. A. centre—£15,000; G.—£23,600; A.—£17,300; E.—£23,650.

Under a Fourth Quinquennial Scheme of Distribution for the period from Oct. 1, 1920, to Sept. 30, 1925, there has been allocated a sum of £224,200 distributed thus: St. A. centre—£37,200; G.—£69,500; A.—£42,250; E.—£75,250.

THE SCOTTISH STUDENTS' INTER-UNIVERSITIES CONFERENCE. At this Conference, which is held annually, the students of the 4 Univs. meet to discuss matters of general interest to them all. The Conference is held in rotation at St. Andrews, Aberdeen, Glasgow, and Edinburgh. Its work, interrupted by the war, was resumed in Jan. 1920 at Edinburgh, where the 27th meeting was held. The Students' Representative Council of each Univ. sends 4 delegates, one of whom must be a woman-student. The convener of the International Academic Committee (v. *infra*) also attends and reports on the work of his committee. The President and Secretary of the Conference are the President and Secretary of the Students' Representative Council of the Univ. at which the Conference is held. A record of the work of each Conference is printed and distributed to each of the Univs. concerned. By providing a common meeting-place for the students of the Scottish Univs., this Conference is largely responsible for the feeling of solidarity which is a marked feature of student life in Scotland.

INTERNATIONAL ACADEMIC COMMITTEE. This is appointed annually by the Students' Representative Council of Edinburgh to collect and publish information regarding foreign study, and to advise foreign students regarding study in this country. It maintains Academic Consuls at foreign Univs., who assist students bearing letters of introduction from the Committee. The services of the Committee are gratuitous. Address: "The Convener, International Academic Committee, Students' Representative Council, The University, Edinburgh."

UNIVERSITY OF ABERDEEN

CHANCELLOR—His Grace THE DUKE OF RICHMOND AND GORDON, K.G., G.C.V.O., C.B.

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UNIVERSITY COURT

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THE LORD PROVOST OF ABERDEEN, *ex officio*.

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Prof. MATTHEW HAY, M.D., LL.D.

Prof. W. L. DAVIDSON, M.A., LL.D.

J. A. MACWILLIAM, M.D., F.R.S.

Prof. J. B. BAILLIE, O.B.E., M.A., D.Phil.

PROFESSORS, LECTURERS, ETC.

Accounting & Business Methods
Davidson, H. A., B.Sc., C.A. Lectr.

Agriculture, v. also Nat. Hist., Vet. Hyg. [Lectr.
Profeit, W. J., M.A., B.Sc. Agr.
..... Asst
..... Asst.
Findlay, W. M. Asst.

Agric. Botany
Clark, R. M., B.Sc., F.L.S. Lectr.

Agric. Chemistry
Hendrick, J., B.Sc. Lond.
Strathcona-Fordyce Prof.
Hill, Alfred, B.Sc., B.Sc. Agr. Asst.
Donald, G., B.Sc. Agr. Asst.
..... Asst.

Anatomy, v. also Embryol.
Reid, R. W., M.D., F.R.C.S.
Reg. Prof.
Lockhart, R. D., M.B. Lectr.
Don, A. V. R., M.B. Asst.
Brown, Isobel G., M.B. Asst.
Mulligan, J. H., M.B. Asst.

Art
Kelly, W., LL.D. Lectr.
Townend, H. Lectr.

Banking
Cowie, R. H. Lectr.

Bio-Chemistry [Lectr.
Edie, E. S., M.A., B.Sc. Edin.
Plimmer, R. H. A., D.Sc. Lond.
Research Lectr.

Biology v. Nat. Hist.

Botany, v. also Agric.
Craib, W. G., M.A., F.L.S. Reg. Prof.
Skene, MacG., D.Sc. Lectr. in Veg. Physiol.
Barnett, Euphemia C., B.Sc. Asst.
Downie, D. G., B.Sc., B.Sc. (For.) Edin. Asst.

Celtic [Lectr.
Fraser, John, B.A. Camb., M.A.

Chemistry, v. also Agric.
Findlay, Alexr., M.A., D.Sc., Ph.D. Leip. Prof.
Gray, F. W., M.A., D.Sc. Lectr.
Bloom, E., B.Sc. Lond. Research Asst.
Bain, Alice M., M.A., B.Sc. Asst.
Milne, W. S., B.Sc. Lond., A.I.C. ,,
Evans, W. J. R., B.Sc. Wales. Asst.

Classics
Harrower, J., LL.D. Glas., M.A. (Greek) Reg. Prof.
Robertson, Mary W. U., M.A. (Lectr. in Gk. Hist.) Asst.
Mordaunt, Frances G., M.A. (Lectr. in Gk. Hist., Lit. and Art) Asst.
Souter, A., M.A., D.Litt. (Humanity) Reg. Prof.
Smith, A. J., M.A., D.Litt. (Latin) Lectr. & Asst.
Weir, R., M.A. (Rom. Hist.) Lectr. & Asst.
Hyslop, A. F., M.A. Asst.

Economics v. Pol. Econ.

Education
Clarke, J., M.A. Belf. Lectr.
McClelland, W. W., M.A., B.Sc., Ed.B. Edin. Lectr.

Embryology
Low, A., M.A., M.D. Lectr.

Engineering Field Work
Horne, A. R., O.B.E., B.Sc. Lond. Lectr.

English
Jack, A. A., M.A. Glas., LL.M. Camb. Reg. Prof. of E. Lit.
Taylor, W. D., M.A. Glas., B.A. Ox. & Aberd. Lectr.
Rose, Beatrice M., M.A. Asst.
Jack, P. M., M.A. Asst.

Fisheries, Scientific Study of
Fulton, T. A. W., M.D. Edin. Lectr.

Forestry [Lectr.
Leslie, P., M.A., B.Sc., B.Sc. Agr.
Fraser, G. K., M.A., B.Sc., B.Sc. For. Lectr. in Soils.

Forest Botany and Entomol.
Watt, A. S., B.A. Camb., M.A., B.Sc. Agr. Lectr.

French
Scholle, W., Ph.D. Stras. Lectr.
Casati, E., L.-es-L. Lyons Lectr. (Comml. F.) & Asst.
Harper, Margaret G., M.A. Asst.

Geography
McFarlane, J., M.A. Edin., M.Com. Manc., B.A. Camb. Lectr.

Geology
Gibb, A. W., M.A., D.Sc. Lectr.
Smith, Margaret, M.A., B.Sc. Asst.

German
Bruford, W. H., M.A. Camb. Lectr.
Jamieson, Ruth C., M.A. (Lectr. in G. Hist.) Asst.

Hebrew and Semitic Langs.
Gilroy, J., D.D. St. And , M.A. Reg. Prof.

History, v. also Law, Theol.
Terry, C. S., M.A., Litt.D. Camb. Burnett-Fletcher Prof.
Simpson, W. D., M.A. Lectr.
Kellas, J., M.A. Asst.

Law v. *infra*

Logic [Reg. Prof.
Davidson, W. L., M.A., LL.D.
Dickie, W. M., M.A. Asst.

Mathematics
Macdonald, H. M., O.B.E., M.A., F.R.S. Prof.
Goodwillie, J., M.A. Camb. & Edin., B.Sc. Edin. Lectr. & Asst.
Lumsden, Edith R., M.A. Asst.
Barron, Williamina A., M.A. Asst.

Medicine v. *infra*

Natural History, v. also Bot., Fish. [Reg. Prof.
Thomson, J. A., M.A., LL.D. Edin.
Rennie, J., D.Sc. (Parasitology) Lectr.
Thomson, Maribel, M.A., B.Sc. (Zool.) Asst.
Neill, R. M., M.A. Glas. Asst.

Philosophy, Moral, v. also Logic, Psych.
Baillie, J. B., O.B.E., M.A. Camb., D.Phil. Edin. Reg. Prof.
Mitchell, J. S., M.A., B.Sc. Glas. (Pol. Sc. & Sociol.) Lectr. & Asst.

Philosophy, Nat.
Niven, C., D.Sc. R.U.I., M.A., F.R.S. Prof.
Fyvie, W. W., D.Sc. Lectr.
Geddes, A. E. M., O.B.E., M.A., D.Sc. Lectr.
Brown, Frances M., M.A. Asst.

Physiology [Reg. Prof.
MacWilliam, J. A., M.D., F.R.S.
Innes, Ian G., M.A., B.Sc., B.Sc. Agr., M.B., Ch.B. (Expl. P.) Lectr.
Reid, C., M.A., B.Sc., M.B. Asst.
Fyfe, G. M., M.B. Asst.
Orr, J. B., M.A., B.Sc., M.D. Glas. Lectr. (P. of Nutrition).

Political Economy, v. also Stats. ..... Prof.
Forrester, R. B., M.A. Edin. Lectr.
Macdonald, Annie, M.A. (Lectr. in Pub. Finance) Asst.
Birnie, A., M.A. Edin. (Econ. Hist.) Lectr.

Polit. Sc. v. Philos.

Psychology, Comparative
McIntyre, J. L., O.B.E., M.A. Edin. & Ox., D.Sc. Edin. Anderson Lectr.

Public Speaking
Mursell, W. Lectr.

Spanish
Davidson, C., M.A. Lectr.

Statistical Methods
Tocher, J. F., D.Sc. Lectr.

Theology
Baird, A. C., M.A., B.D., B.Sc. Glas. (Bibl. Crit.) Reg. Prof.
Cowan, H, M A. Edin., D.C.L. Durh., D.Th. Geneva, D.D. (Church Hist.) Reg. Prof.
Fulton, W., M.A., D.D., B.Sc. Glas. (Systematic T.) Prof.

Veterinary Hygiene
Brown, Wm., M.R.C.V.S. Lectr.

Law

Scots L., Roman L., Jurispr.
Stuart, A. M., K.C., LL.B. Edin., M.A. Prof.

Constit. L. and Hist.
Williamson, R. M., LL.B. Edin., M.A. Lectr.

Conveyancing
Morrison, A. C., O.B.E., M.A. St. And., LL.B. Glas. Lectr.
Masson, R. P., M.A., LL.B. Asst.

Internat. L., Public and Private
Duncan, G., M.A. Lectr.

Procedure and Evidence & Merc. Law for Comml. Students
Blacklaw, A., M.A. Clark Lectr.

Medicine

Bacteriology
..... Lectr.

Forensic Med.
Hay, M., M.D., LL.D. Edin. Prof.

Williamson, G., M.A., M.B. (Med. Ethics) Lectr.

Materia Medica

Marshall, C. R., M.A. Camb., M.D. Manc. Reg. Prof.
Hendry, A. W., M.D. Asst.
Davidson, Bessie M., M.B. St. And. Asst.

Medicine

Mackintosh, A. W., M.A., M.D. Reg. Prof.
Anderson, A. G., M.A., M.D., M.R.C.P. Lond. Asst.

Midwifery

McKerron, R. G., M.A., M.D. Reg. Prof.
Haultain, W. F. T., O.B.E., B.A., M.B. Camb. Asst.

Pathology [Wilson Prof.
Shennan, T., M.D., F.R.C.S. Edin.
Fraser, D. M. M., M.B., Ch.B. Asst.
Clark, R. J., M.B. Asst.
Cruikshank, J., M.D. Glas. Research Lectr.

Pharmacology

..... Lectr.

Public Health

Kinloch, J. P., M.D. Glas. Lectr.
Brown, F. W. C., M.B. Asst.

Surgery

Marnoch, J., C.V.O., M.A., M.B., C.M. Reg. Prof.
Colt, G. H., M.B., B.Ch. Camb., F.R.C.S. Asst.

Tropical Medicine

Williamson, G. A., D.T.M. Liv., M.A., M.D. Lectr.

GENERAL INFORMATION (v. also p. 207)

The " University and King's College of Aberdeen," founded under a Papal Bull in 1494, and the " Marischal College," founded in 1593 by George Keith, Earl Marischal, were reconstituted in 1860 as " The University of Aberdeen." Certain of the original buildings remain, notably the Chapel (A.D. 1500).

The LIBRARY, founded in 1500, has 200,000 vols. and 170 Incunabula, some unique. It is especially rich in Celtic literature, and books bearing on the history, topography, and antiquities of the Scottish Highlands, and Classical Archaeology. Annual budget about £3500. MUSEUMS: Anthropological (illust. cat. 1s.), Surgical (2500 specimens and 600 instruments), etc. Besides the usual LABORATORIES there is one for Agric. Research with special reference to *Animal Nutrition*, under the management of a joint committee of the Univ. and the N. of Scotland College of Agric. Hospitals available for clinics: Infirmary, 230 beds; Children's, 85; Fever, 100; Lunatic Asylum, 700.

DEGREES, ETC. (v. p. 209). For the Diploma courses (2 yrs.) in Agric. and Forestry there is a preliminary examn. in English and Maths. The papers in the Final examn. in Agric. are the same as those set for the B.Sc.Agr. The only other Diploma conferred is the D.P.H. Univs. outside the United Kingdom which have been recognized by the Univ. Court *pro tanto* as institutions in which 3 of the requisite 5 yrs. of medical study may be taken, provided that the prescribed conditions with reference to such study are fulfilled: Bom., Calc., Mad., Adel., Melb., Syd., N.Z., S. Africa, Dal., Queen's (Kingston), Tor., McGill, Chic., Corn., J.H.U., Harv., Stanf., Mich., Penn., Yale. Individual teachers in other Univs. may be recognized upon satisfying the Univ. Court with respect to their courses. The following have been recognized in respect of courses and examns. in Bot., Zool., Biol., Physics, and Chem. qualifying for a degree in Science or in Arts or in Med.: Bom., Calc., Mad., All., Panj., Melb., Syd., Adel., Queen's (Kingston), McGill, Tor., Manit., S. Africa. The courses and examn. in Anat. and Physiol. for the Science degree of the Univ. of Cape Town have been recognized.

FEES. (But see p. 210 also: increase impending.) Inclusive fees for tuition: Ordinary M.A., 30 gs.; Honours, 40 gs.; B.Com., 30 gs.; B.Sc. in Pure Science, 60 gs.; M.A. and B.Sc. taken together, 75 gs.; M.A. and B.Com., 50 gs.; B.Sc. and B.Com., 75 gs.; LL.B., 30 gs. (or 20 gs. to an M.A. of the Univ.); B.L., 22 gs.; M.B., Ch.B., 90 gs.; M.A., M.B., Ch.B., 110 gs.; B.Sc., M.B., and Ch.B., 120 gs.; M.A., B.Sc., M.B., and Ch.B., 140 gs. (The total cost of the whole medical curriculum, including hospital fees, classes, matricn., and degree fees, is usually about £178.) The Degree fees vary from 5 and 6 gs. to 10 gs. for the Doctorates (Medical, 15 to 22 gs.). The fee for the D.P.H. is 8 gs.

SCHOLARSHIPS, ETC. for graduates (v. also p. 211) about 25; aggregate annual value about £1600.

RESIDENCE. No Univ. Hostel. List of lodgings kept by Students Repve. Council.

PUBLICATIONS. *Calendar* (Sept.), 4s. 6d.; *Univ. Review*, 7s. 6d. p.a. (3 issues); *Students' Handbook* (Nov.), 1s.

THE YEAR 1919–20

BENEFACTIONS. Carnegie Trust, £7000 towards Pension Fund; Mrs. E. L. Adam, £1000 for improving Recreation Ground, etc.; Aberd. Chamber of Commerce, £17,000 for endowment of Commerce Dept.; Sir J. Sivewright, £10,000 for bursaries; A. J. Venn and T. Munday, £250 each for Med. Sch.; Baroness de Gurbs, £2314 for prizes in Greek and Maths.; J. Thomson, £1800 for Lect'ship in Med.

NEW BUILDINGS, ETC. Addl. Lab., Lecture Room, etc., for Agr. Dept.; Equipment of Malignant Diseases Labs., Plant Physiol. Labs., tempy. examn. Hall; Women's Rooms; heating system for King's College.

NEW POSTS. Chair of Pol. Econ.; Lect'ships in Econ. Statistics, Accounting, etc., Comml. French, Econ. Geog., Econ. Hist., Banking, etc., Merc. Law, Med. Ethics, Spanish, Public Speaking, Plant Physiol., Greek Hist., etc.

OTHER DEVELOPMENTS AND CHANGES OF REGNS. Degree of Ph.D., B.Com., Ed.B.; Diploma of Pub. Health; Geog., Greek Lit., Hist., and Art, and, if taken with Brit. Hist. or Pol. Econ., Econ. Hist., recognized as subjects qualifying for M.A. Degree.

HONORARY DEGREES CONFERRED. *D.D.*—G. E. Argo, A. Fiddes, G. Jackson, R. A. Lendrum, D. MacLean, J. I. Still. *LL.D.*—Sir J. C. Bose, Profs. W. Bulloch, J. W. Duff, and J. H. Jeans, Sir A. D. Hall, Sir Robert Jones, C. S. Macpherson, Charles Murray, David Nicholson, Admiral Sir D. Beatty, Marshal Foch, Burgomaster Max.

OTHER DEGREES (1918, 1919, 1920). M.A.—65, 119, 131 (including women, 49, 61, 62); B.Sc.—7, 6, 15 (women, 3, 2, 7); B.Sc.Agr.—1, 7, 6; B.Sc.For.—0, 1, 2; B.D.—2, 7, 5; LL.B. and B.L.—2, 4, 4; M.B., Ch.B.—28, 41, 38 (women, 7, 18, 17); Doctors—5, 12, 11.

NUMBER OF STUDENTS. Total, matriculated, 1917–18 to 1919–20: 697, 1187, 1531 (including women, 388, 418, 486). In 1919–20, graduating, 1439; diploma, 161; occasional, 37; research, 1; from Africa, 25; Jamaica, 10; Asia, 12; Aust., 2; America, 4.

DEATHS. D. R. Thom, Secretary; Prof. J. W. H. Trail.

RETIREMENTS, ETC. Of members of the staff who resigned, 3 took up apptmts. in the British Dominions overseas.

EXTERNAL WORK. Lectures on Art, 123; Tutorial Classes in Indust. Hist., 17; Forestry, 16.

UNIVERSITY OF EDINBURGH

CHANCELLOR—Rt. Hon. A. J. BALFOUR, O.M., D.C.L., LL.D.

VICE-CHANCELLOR AND PRINCIPAL—Sir J. ALFRED EWING, K.C.B, M.A., D.Sc., LL.D., F.R.S.

RECTOR—Rt. Hon. D. LLOYD GEORGE, O.M.

SECRETARY TO THE UNIVERSITY—WILLIAM WILSON, M.A., LL.B., Advocate.

ADVISERS OF STUDENTS IN ARTS—A. F. GILES, M.A.; R. P. HARDIE, M.A.

IN ARTS AND SCIENCE—C. G. KNOTT, M.A., D.Sc., LL.D.

IN COMMERCE—W. M. MITCHELL, M.A., LL.B.

IN SCIENCE—J. B. TODD, B.Sc.

UNIVERSITY COURT

PRESIDENT—THE RECTOR, *ex officio.*

THE PRINCIPAL, *ex officio.*

The Rt. Hon. THE LORD PROVOST OF EDINBURGH, *ex officio.*

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JAMES WALKER, C.A., LL.D.

J. M. RUSK, S.S.C.

R. M'KENZIE JOHNSTON, M.D.

D. D. BUCHAN, LL.B., S.S.C.

Sir GEORGE A. BERRY, M.B.

J. B. CLARK, M.A.

Prof. J. RANKINE, K.C., M.A., LL.D.

Prof. T. HUDSON BEARE, B.A., B.Sc., M.I.C.E.

Prof. Sir RICHARD LODGE, M.A., LL.D.

Prof. J. RITCHIE, M.A., M.D.

PROFESSORS, LECTURERS, ETC.

Accounting and Business Method
Laird, T. P., C.A. Prof.
Stewart, G. D., C.A. Asst.

Actuarial Science
Sprague, A. E., M.A., D.Sc. Lectr.
Gunn, G. A., F.F.A. Lectr.

Agriculture and Rural Economy, v. also Bot. and Forestry
Wallace, R. Prof.
Watson, J. A. S., B.Sc. Lectr.
Bruce, W., B.Sc. Lectr.
..... Asst.

Agric. & Forest Entomol.
MacDougall, R. S., M.A., D.Sc. Reader.

Anatomy
Robinson, A., M.D. Prof.
Jamieson, E. B., M.D. Lectr.
..... Asst.

Anatomy, Applied
Jardine, F. E., M.B. Lectr.

Anatomy, Comparative
Bradley, O. C., M.D., D.Sc. Lectr.
Grahame, Tom, M.R.C.V.S. Asst.

Anatomy, Morbid
Alexander, W. A., M.B. Lectr.

Anthropology and Prehistoric Archaeol.
Breuil, Abbé H. Munro Lectr.

Arabic [Lectr.
Robertson, E., M.A., B.D., D.Litt.

Art (Fine Art)
Brown, G. Baldwin, M.A. Prof.

Astronomy
Sampson, R. A., M.A., D.Sc., F.R.S. Reg. Prof.

Banking
M'Neil, A., S.S.C. Bruce Lectr.

Biology v. Nat. Hist.

Botany, v. also Forestry
Balfour, Sir I. B., K.B.E., M.D., D.Sc., F.R.S. Reg. Prof.
Smith, J. L. S., M.A., B.Sc. (Forest B) Lectr.
Watt, Sir G., C.I.E., M.B., C.M., LL.D. Aber. & Glas., F.L.S. (Indian Forest Trees) Lectr.
Matthews, J. R., M.A., B.Sc. Lectr.
Wilson, M., D.Sc. (Mycol. and Bacteriol.) Lectr.
Templeton, J., B.Sc. (Plant Physiol.) Lectr.
MacCallum, Bella, D.Sc. Asst.

Celtic Languages, etc.
Watson, W. J., M.A., LL.D. Prof.

Chemistry
Walker, Sir J., D.Sc., F.R.S. Prof.
Barger, G., M.A., D.Sc., F.R.S. Prof. of C. in relation to Med.
Dobbin, L., Ph.D. Lectr.
Mackenzie, J. E., D.Sc., Ph.D. Lectr.
Kay, S. A., D.Sc. Lectr.
Rule, H. G., Ph.D., D.Sc. Lectr.
Balsillie, D., D.Sc. Lectr.
Ross, J. D. M., M.A., B.Sc. Lectr.
Dunnill, S., A.R.C.S. Lectr.
Bolam, T., M.Sc. Lectr.
Mitchell, R. K. S., B.Sc. Asst.
Mackenzie, Mary E., B.Sc. Asst.
Numbers, Annie H., M.A., B.Sc. Asst.
Stedman, E., B.Sc. Asst.
M'Michael, Dorothy, B.Sc. Asst.
Robson, W., B.Sc. Asst.
Smith, A. M., B.Sc. Asst.
Smith, John, B.Sc. Asst.
Thompson, H., M.A., B.Sc. Asst.
Fairweather, D. A., M.A., B.Sc. Asst.
Stewart, C. V., B.Sc. Asst.
Coutie, A , B Sc. Asst.

Chemistry, Technical
Cumming, A. C., D.Sc. Lectr.

Classics
Mair, A. W., M.A., Litt.D. (Greek) Prof.
Kerr, R R , M.A. (Greek) Lectr.
Richmond, O. L., M.A. (Humanity) Prof.
Mill, J., M.A. (Latin) Lectr.
Mountford, J. F., M.A. (Latin) Lectr.
Nicholson, Catherine A., M.A. Asst.
Steuart, E. M., M.A. Asst.

Commerce, and Organization of Industry [Lectr.
Oliver, W., B.Sc., A.M.I.C.E. (v. also Acc., Banking)

Commercial and Polit. Econ. and Merc. Law, v. also Law
Nicholson, J. S., M.A., D.Sc. Prof.
Rees, J. F., M.A. (Econ. Hist.) Lectr.
Carruthers, W., M.A. Lectr.
Rankin, Mary T., M.A., D.Phil. Lectr.
Mitchell, Wm. M., M.A., LL.B. ,,
Carse, G. A., M.A., D.Sc. (Statistics and Math. Econ.) Lectr.
..... Asst.

Divinity
Paterson, W. P., M.A., D.D. Prof.
Campbell, Colin, D.D.
Gunning Lectr. 1920-21
Curtis, W. A., M.A., D.Litt., D.D.
Reg. Prof. of Biblical Criticism & Bib. Antiq.
..... Asst.
Mackinnon, J., M.A., Ph.D., D.D.
Reg. Prof. of Eccl. Hist.
Stout, G. F., Prof.
Gifford Lectr. on Natural Theol. [1921-24
Bell, R., B.D. Gunning Lectr.

Economics v. Comm.

Education
Darroch, Alex., M.A. Prof.
Fraser, D. Kennedy, M.A., B.Sc. Lectr.
Beckersteth, Marguerite E. Asst.

Engineering [Reg. Prof.
Beare, T. H., B.A., B.Sc., M.I.C.E.
Kerr, W. Hume, M.A., B.Sc. (Drawing, etc.) Lectr.
Todd, J. B., B.Sc., A.M.I.M.E. (Surv. & Hydraulics) Lectr.
Gordon, W., B.Sc., A.M.I.M.E. (Strength of Mats. and Forest Engin.) Lectr.
Stewart, David S., A.M.I.C.E. Lectr
Leslie, James, B.Sc. Asst.
Black, W. G. Asst.
Henry, R. H., B.Sc. Asst

English Lit. and Rhetoric
Grierson, H. J. C., M.A., LL.D. Reg. Prof.
Kitchin, G., M.A., B.Litt. Lectr.
Dickins, Bruce, M.A. Lectr.
Hislop, Gordon, M.A. Lectr.
..... Asst.

Entomology v. Agric.

Forestry, v. also Agric., Bot., Engin.
Stebbing, E. P. Prof.
Pike, J. L., M.A., B.Sc. Lectr.
Fergusson, D. C., B.Sc. Lectr.

French and Rom. Philol. [Prof.
Sarolea, C., K.O.L., Ph.D., D.Litt.
Moore, J. M., M.A. Lectr.
Burns, Mary, M.A., D. de l'U. Paris Lectr.
Lafourcade, G. Asst.
Lesire, A Asst.

Geography [Reader.
Chisholm, G. G., M.A., B.Sc.
Lennie, Alice B., M.A., B.Sc. Lectr. and Asst.

Geology
Jehu, T. J., M.A , M.D. Reg. Prof.
Campbell, R., M.A., D.Sc. (Petrology) Lectr.
Finlay, T. M., M.A., B.Sc. (Palæont.) Lectr.

German and Teutonic Philol.
Schlapp, O., Ph.D. Reader
Eggeling, H. F., M.A. Lectr.
Barker, Marie, M.A. Asst.

Hebrew and Semitic Langs.
Kennedy, A.R.S., D.D. Prof.
Kennedy, A. C., M.A. Asst.

Histology v. Physiol.

History v. also Comm., Div.
Lodge, Sir Richard, M.A., LL.D. Prof.
Heatley, D. P., M.A. (Political Science) Reader
Melville, E. W. M. B., M.A. Lectr.
Williamson, Mary G., M.A. Asst.

History, Ancient (Gk. & Roman)
Giles, A. F., M.A. Lectr.
Lemon, E., M.A. Asst.

History, Ancient, and Palæog.
Hannay, R. K., M.A. Prof.
Lemon, Miss E. Asst.

History, Colonial and Indian
Ewing, J., M.A. Lectr.

History, Const. Law and Const.
Millar, J. H., M.A., LL.B. Prof.

Italian
Purves, J., M.A. Lectr.

Law v. *infra*

Logic and Metaphysics
Smith, N. Kemp, M.A., D.Phil., LL.D. Prof.
Anderson, J., M.A. Lectr.
Craig, A. C., M.A. Asst.
Gray, Marion I., M.A. Asst.

Mathematics
Whittaker, E. T., M.A., Sc.D., F.R.S. Prof.
Horsburgh, E. M., M.A., D.Sc., A.M.I.C.E. Reader
Tweedie, C., M.A., B.Sc. Lectr.
Gibb, D., M A., B.Sc. Lectr.
Baker, B. B., M A., B.Sc. Lectr.
Smeal, G., B.Sc. Lectr.
Robinson, G , M.A. Asst.

Mathematics, Applied
Knott, C. G., M.A., D.Sc., LL.D., F.R.S. Reader.

Medicine and Surgery v. *infra*

Music
Tovey, D. F., B.A., Mus.M. Reid Prof.
Shirlaw, M., Mus.D. Lectr.
Dunn, J. P., Mus B. Lectr.

Natural History
Ewart, J. C., M.D., F.R.S. Prof.
Ashworth, J. H., D.Sc., F.R.S. Prof. (Zool.).
Patton, Major W. S., I.M.S. Lectr.
Stephenson, J., M.B., D.Sc. Lectr.
Purser, G. L., M.A Asst.
Crew, F. A. E., M.B. Lectr.
Lamont, Augusta, B.Sc. Asst.
Beard, J., D.Sc. Lectr. (Comp. Embryol., etc.).

Philology v. French, Ger., Sansk.

Philosophy, v. also Logic, Psych.
Seth, J., M.A., LL.D., Prof. of Moral P.
Barker, H., M.A. Lectr.
Forrester, W. R., M.A. Asst.
Hardie, R. P., M.A. (Ancient Philos.) Reader

Philosophy, Natural
Barkla, C. G., M.A., D.Sc., F.R.S., Nobel Laureate Prof.
Carse, G. A., M.A., D.Sc. Lectr.
Milne, J. R., D.Sc. Lectr.
Allen, H. S., M.A., D.Sc. Lectr.
Dunbar, R. T., M.A., D.Sc. Lectr.
Jack, D., M.A., B.Sc. Nichol Asst.
White, Margaret P., M.A., B.Sc. Lectr.
Buchanan, R. C., M.A., B.Sc. Asst.
Cranfield, R. V. Asst. (Mechanics).

Physiology
Schafer, Sir E. A. Sharpey, LL.D., F.R.S. Prof.
Taylor, W. W., M.A , D.Sc. (Chem. P.) Lectr.
Walker, May L., M.A., B.Sc., M.B. (Expl. P.) Lectr.
Lim, R. K. S., M.B. (Histol.) Lectr.
Bruce, A. N., M.D., D.Sc. (P. of Nervous System) Lectr.
McDowall, R. J. S., M.B. Lectr.
Ponder, E , M.B. Asst.
Dryerre, H., M.R.C.S. Asst.
Charlton, Dorothy D. Asst.

Pol. Econ., Sc. v. Comm , Hist.

Psychology [Lectr.
Drever, J., M.A., B.Sc., D.Phil.
Collins, Mary, M A., B.Ed. Asst.

Public Health
Stewart, C. Hunter, M.B., C.M., D.Sc. Prof.
Young, J. B., M.B., D.Sc. Asst.

Rhetoric v. English

Russian
Brennan, H. G., M.A. Lectr.

Sanskrit and Comp. Philol.
Keith, A. Berriedale, M.A., D.Litt., D.C.L. Reg. Prof.

Semitic Langs. v. Hebrew

Spanish
Walton, L. B., B.A. Lectr.

Statistics v. Comm.

Theology v. Divinity

Zoology v. Nat. Hist.

Law

Administrative
Wood, P. F., M.A., LL.B. Lectr.

Civil [Prof.
Mackintosh, J., K C., B.A., LL.D.
Mackintosh, C., B.A., LL.B Asst.

Constitutional v. Hist.

Conveyancing
Mounsey, J. L., W.S. Prof.
Grant, J. A. Asst.

English [Lectr.
Murdoch, H. Burn, B.A., LL.B.

Evidence and Procedure
Lewis, W. J., B.L., S.S.C. Lectr.

Industrial and Merc., v. also Comm.
Aitken, H., K.C. Lectr.
Lillie, J. A., M.A., LL.B. Asst.

International, Private
Dykes, D. O., M A , LL.B. Lectr.

Landlord and Tenant
Cowan, John, K.C. Lectr.

Public
Grant, Sir Ludovic J., Bart., B.A., LL.D. Reg. Prof.

Scots
Rankine, J., K.C., LL.D. Prof.
Stevenson, W. H., M.A., LL.B. Asst.

Medicine

Anæsthetics
Ross, J. Stuart, M.B. Demr.

Bacteriology, v. Path.

Children, Diseases of
Fowler, J. S., M.D., and Staff of Hospl. for C. Lectrs.

Dermatology, Clinical
Walker, N., M.D. Lectr.
Gardiner, F , M.D. Lectr.
Low, R. C., M.B. Lectr.

Eye, Diseases of the
Paterson, J. V., M.B. Lectr.
Sinclair, A. H. H., M.D. Lectr.
Traquair, H. M., M.D. Lectr.
Cameron, E. H , M.B. Clin. Tutor.

Forensic Med. [Reg. Prof.
Littlejohn, H., M.A., M.B., B.Sc.
Haslam, J. F. C., M.B. Asst.

Gynæcology, Syst. and Clin.
Barbour, A. H. F., M.A., M.D., LL.D. Lectr.
Brewis, N. T., M.B. Lectr.
Ferguson, J. Haig, M.D. Lectr.*
Fordyce, W., M.D. Lectr.*
Miller, D. A., M B. Asst.
Johnstone, R. W., M.A., M.D. Tutor.*
Young, Jas., M.D. Tutor.*

History of Med. [Lectr.†
Comrie, J. D., M.A., B.Sc., M.D.

Infective Fevers
James, A., M.D. Lectr.
Ker, C. B., M.D. Lectr.

Laryng., Ot., and Rhinology
Turner, A. L., M.D. Lectr.
Farquharson, J. M., M.B. Lectr.
Fraser, J. S., M.B. Lectr.
Lithgow, J. D., M.B. Lectr.
Burton, M., M.B., C M Tutor.
Gardiner, W. T., M.B., Ch. B. Tutor.

Materia Medica, v. also Pharm.
Cushny, A. R , M.A., M.D., LL D., F.R S. Prof.
Lambie, C G., M.B. Lectr.
Watt, J. M., M.B. Asst.

Medicine and Clin. Med.
Gulland, G. L., C.M.G., M.A., B.Sc., M.D. Prof.
Mathewson, G. D., M.B., B.Sc. Asst. (Med.).†

Medicine, Clinical
Boyd, F. D., C.B., M.D. Moncrieff-Arnott Prof.
The Prof. of Therap. Sr Lectr.
Philip, Sir R. W., M.D. Sr. Lectr.
Fleming, R. A., M.D. Sr. Lectr.
Rainy, H., M.A., M.D. (also in Physical Methods) Sr. Lectr.
Watson, D. C., M.D. Sr. Lectr.

* Clin. Lectr. in Midw. † Lectr. in Clin. Med.

Bramwell, E., M.D. (also in Neurology) Sr. Lectr.
Matthew, E., M.D. Lectr.
Ritchie, W. T., M.D. Lectr.
Goodall, A., M.D. Lectr.
Eason, J., M D. Lectr. & Asst.
Smith, G. L M., M.B. Asst. & Tutor.
Cran, D. H. D., M.D. Tutor.
Small, W. D. D., M.D. Tutor.
Ritchie, A. G., M.B. Tutor.
Smith, A. N., M.B. Tutor.
Rutherford, A., M.B. Tutor.
Matheson, A. R., M.B Tutor.
McDowall, R. J. S., M.B. Tutor.

Mental Diseases v. Psychiat.

Midwifery [Prof.*
Croom, Sir J. Halliday, M.D.
Ballantyne, J. W., M.D. Lectr.
Batchelor, R. C. L., M.B. Asst.
Lackie, J. L., M.D. Clin. Lectr.
Nicholson, H. O., M.D. Clin. Lectr.
McGibbon, J., M B Clin. Lectr.
Davidson, H. S., M.B. Clin. Lectr.

Neurology v. Med. Clin.

Orthopædics
..... Lectr.

Pathology and Bacteriology, v. also Anat. Morb.
Smith, J. Lorrain, M.A., M.D., F.R.S. Prof.
Ritchie, J., M.A., M.D. Irvine Prof.
Wright, H. D., M.B. Lectr.
Lyon, D. M., M.D. (Pract. Path.) Lectr.†
Graham, J. M., M.B., Ch.M. (Surg. P.) Lectr.
Muir, R. Demr. of Methods
Ryrie, B. J., M.B. Lectr. in P.
Macartney, J. E., M.B. Lectr. in B.
Dill, A. V., M.B. Lectr. in B.
Findlay, C. W. M., M.D. Asst.
Mailer, R., M.B. Asst.

* Clin. Lectr. in Midw.

Macgregor, Agnes, M.B. Asst.
Thomson, H., M.B. Asst.
Sprunt, T., M.B. Asst.

Pharmacology, Expl., and Mat. Med.
Sillar, W. C., M.D., B.Sc. Lectr.

Physical Methods v. Med. Clin.

Pub. Health v. *supra*

Psychiatry
Robertson, G. M., M.D. Prof.

Surgery
Thomson, H. Alexis, C.M.G., M.D., F.R.C.S. Prof.
Watson, A. P., M.A., M.B., Ch.M. Asst.
Alexander, R. C., M.A., M.B. Asst.

Surgery, Clinical [Reg. Prof.
Stiles, Sir Harold J., M.B., C.M.
The Prof. of Surg. Senr. Lectr.
Hodsdon, Sir J. W. B., M.D. Senr. Lectr.
Wallace, Sir D., C.M.G., M.B. Senr. Lectr.
Miles, A., M.D. Senr. Lectr.
Dowden, J. W., M.B. Senr. Lectr.
Skirving, A. A. S., C.M.G., M.B. Senr. Lectr.
Wilkie, D. P. D., O.B.E., M.D., Ch.M. Lectr. & Asst.

Surg. Pathology
Graham, J. M., M.B., Ch.M. Lectr.

Therapeutics
Meakins, J. C., M.D. Prof.
Davies, H. W., M.B., B.Sc. Asst.
Harington, C. R., B.A. Asst.

Tropical Climates Diseases
Marshall, Lt.-Col. D. G., M.B., I.M.S. Lectr.

Tuberculosis
Philip, Sir R. W., M.A., M.D. Prof.
Hewat, A. F., M.B. Asst.†
Simpson, J. C., M.B. Asst.

Venereal Diseases
Lees, David, M.D. Lectr.

† Lectr. in Clin. Med.

ASSOCIATED COLLEGES, in which Univ. courses are provided at Edinburgh

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE. Director, Alex. Lauder, D.Sc.

HERIOT-WATT COLLEGE. Principal, A. P. Laurie, D.Sc.

NEW (UNITED FREE CHURCH) COLLEGE. Principal, Alex. Martin, D.D.

ROYAL (DICK) VETERINARY COLLEGE. Principal, O. C. Bradley, M.D., D.Sc.

GENERAL INFORMATION (v. also Scottish Univs.)

Originally the "Town's College," founded in 1583 by the Town Council under general powers granted by Royal Charter, April 14, 1582. The Old College on the site of "Kirk o' Field," the scene of the murder of Lord Darnley, was designed by Robert Adam, and completed in 1838. New buildings include the McEwan Hall (1888–97), in theatre form, which holds 2600 people and has a great electric organ. The Medical School of this Univ. has been famous for many generations; specially ample provision exists also for instruction and research in Theology (post-graduate school instituted 1919), Agric., Forestry, Engin., and Vet. Sc. Edinburgh is the seat of the Scottish Supreme Courts of Law.

LIBRARY, founded in 1580, 300,000 vols., 8000 MSS., includes special collections—Shakespearean, Sanskrit, Celtic, Persian, and Arabic MSS., Economics (Hodgson), Math. tables by E. Sang., transactions of Engin. Societies in Great Britain and America. MUSEUMS: Nat. Philos., Fine Art, Geol., Nat. Hist., Chem., Forestry, Agric., Entom. and Forest Zool. (Waterhouse collection of Coleoptera), Anat. (founded with the Monro collection in 1800; numerous specimens of Cetacea and human crania), Physiol., Mat. Med. (notable collections of medicinal and food substances, including those of Duncan and Christison), Forensic Med., Practice of Physic, Surg., Obst. (Simpson collection), Music and Musical Instruments. The Prof. of Botany is Regius Keeper of the Royal Bot. Garden. The Prof. of Astronomy is Astronomer Royal for Scotland and gives practical courses at the *Royal Observatory*. The LABORATORIES are especially well equipped for research in Anat., Anthrop., Bact., Chem. (places for 100 students), Engin. (notably Hydraulics, Strength of Materials, Elec. Engin.), Mat. Med., Path., Physics, Physiol., Psych., Pub. Health (Institute built 1902, costing £21,000). The Univ. has a table at the Millport Marine Station. HOSPITALS: the Royal Infirmary adjoining the Univ. provides over 900 beds for clinical teaching, in addition to the Children's, Maternity, and Fever Hospls., and Lunatic Asylums. Over 50 resident posts in these are given annually to Med. graduates.

DEGREES AND DIPLOMAS (v. Scottish Univs.). A diploma in *Education* is granted on completion of Univ. courses (1 yr.) and passing examns. in Psych., Theory and Hist. of E., and modern E. Systems and Problems. Candidates must have attended a course of Professional training or have had at least 3 yrs. experience as a teacher, and must have completed a graduation course in Arts. Diplomas are also granted in *Actuarial Mathematics* (2 yrs.), *Forestry* (2 yrs.—certificate only, 1 yr.—open only to ex-Service men), *Geography* (open to graduates or students about to graduate in Arts or Science).

A candidate for the B.Sc. in *Vet.Sc.* must (i.) have passed the Prelim.

examn. for degrees in Sc., (ii.) have been engaged in Vet. study for 4 yrs., (iii.) have a registrable qualification, (iv.) have attended certain specified courses, including 1 yr. of study in this Univ. The Royal (Dick) Vet. Coll., Edin., provides certain of the qualifying courses.

The 1st examn. for the B.Sc. in *Pub. Health* is open to graduates in Med. of Univs. of the U.K., or McG., Queen's (Ont.), Panj., Harv., Bruss., or Wurz., on conditions which include study during 5 mos. in the Edin. Pub. Health Lab. The 2nd examn. may not be taken until 6 mos. after passing the 1st.

Diplomas in *Pub. Health* (1 yr. course), in *Tropical Med. and Hygiene* (16 mos.), and in *Psychiatry* (1 yr.), are open to graduates of the Univ. and registered Med. practitioners.

Candidates for the *Mus.B.* must have passed the Arts or Sc. Prelim. examn., or its equivalent, and attended a course in this Univ. during a whole winter session. A Mus.B. of 3 yrs. standing may offer himself for the Mus.D. (which may also be conferred *honoris causa*).

RECOGNITION OF INSTITUTIONS AND TEACHERS outside the United Kingdom:

(*a*) For exemption from one (not the final) year of the course for M.A. or for B.Com.: the following Univs.—Alb., Dal., McG., Manit., Queen's, Tor., Adel., Melb., Syd., N.Z., S. Africa, All., Bom., Calc., Mad., Panj., Paris, Tokyo, Osaka, Sendai.

(*b*) For some of the courses for the B.Sc.: Madras Coll. of Agric., Colls. affiliated up to B.A. and B.Sc., and Engin. Colls. affiliated to the Indian Univs., Univs. and Polytech. Sch. supported and regulated or recognized by Govts. in Europe.

(*c*) For admission as graduate in Arts to the LL.B. examn.: the Univs. of All., Calc., Mad.; v. also (*f*).

(*d*) For 2 of the 3 yrs. study for LL.B.. McGill Univ., Madras Law Sch., Law Coll., Trevandrum, Ripon Coll., Calc.

(*e*) For 3 of the 5 yrs. of Med. study: recognized teachers in Singapore (in Physiol. and Practice of Med.) and Wellington, S. Africa (in Chem.).

(*f*) For admission of graduates from these institns. to courses for the Ph.D. degree (General Recognition is also granted to them in terms of the various Graduation Ordinances): the following Univs.—Dal., King's Coll. (N.S.), Laval, McG., Manit., Queen's (Ont.), Tor., Adel., Melb., Queensland, Syd., W. Aust., N.Z., Cape Town, S. Africa; all Colleges affiliated to these Univs.; Univs. and Colls. approved by the Assocn. of American Univs.

POST-GRADUATE COURSES in Medicine are held during the Summer and Autumn Terms and the *Summer Vacation*. Particulars obtainable from the Hon. Sec., P.-G. Courses in Med., Univ. New Buildings, Edinburgh. The Post-graduate School of Theology has issued a detailed list of courses for 1920–21 and 1921–22, obtainable from the Sec., Prof. Kennedy, 33 Fountainhall Road. Graduates contemplating research in other Faculties should apply to the Dean. v. also p. 211.

SCHOLARSHIPS. Total annual value over £22,000; for graduates only, £6000. Most are open to colonial and foreign students. The Earl of Moray's Endowment provides over £800 p.a. for *research*. v. also p. 211.

FEES. (*N.B.*—See also p. 210.) Inclusive tuition fees for degrees: M.A., 30 gs.; Hons., 40 gs.; B.Com., 40 gs.; for combined degrees in Arts and Science, Arts and Law, 45 to 75 gs.; LL.B., 30 gs.; B.L., 22 gs.; B.Sc. in Pure Science, in Engineering (Civil, Mech., or Elec.), in Agric., or in Forestry, 60 gs.; B.Sc. in Agric. and B.Sc. in Forestry combined, 90 gs.; B.D., £21;

M.B., Ch.B., including Hospl. Fees, £180. Graduation examns.: M.A., 5 gs.; B.Com., 5 gs.; B.Sc., 6 gs.; D.Sc., 10 gs.; B.D., 5 gs.: LL.B., 6 gs.; B.L., 5 gs.; M.B., Ch.B., 22 gs.; M.D., 15 gs.; Mus.B., 10 gs.; Mus.D., 15 gs.; Ph.D., 10 gs. But see also p. 210.

HALLS OF RESIDENCE. For men: University Hall on a self-governing basis (information from Messrs. Whitson and Methuen, 21 Rutland Street). Board and lodging about £3 a week. For women: East Suffolk Rd., Craigmillar Park (Warden); Masson Hall, 31 and 32 George Square (Warden); and Muir Hall, 12 George Square (Warden), about £20 a term. Six months' notice generally necessary.

UNIV. EXTENSION. The Univ. is now represented on the Advisory Committees for the management of the Tutorial Classes for adults instituted by the Edin. Educational Authority, in co-operation with the Workers' Educnl. Assocn.

INTERNATIONAL ACADEMIC COMMITTEE. v. p. 212.

There is also a Franco-Scottish Society for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glas., Aberd., and Dundee. Indian Students' Adviser: Maj. J. E. Mackenzie, D.Sc.

OFFICIAL PUBLICATIONS. The *Calendar* (Aug.), 6s.; the *Prelim. and Degree Examn. Pps.* (May and July), 4d. to 1s. 6d. a set (James Thin, 55 South Bridge). The *Students' Handbook* issued by the Students' Representative Council. Facilities for advanced Study and Research free on application.

THE YEAR 1919–20

BENEFACTIONS. £10,000 for Lect'ship in Orthopædics; Munitions Committee, £500 for Engin. equipment; S. Elliott of New York, £1500 bequest for Bursaries in Hist. and Lit.; Lothian Coalowners, £150 p.a. for 5 yrs. towards Lect'ship in Mining Plant; Royal Edin. Asylum, £10,000 towards Chair in Psychiatry; Combe Trust, £31 p.a. towards Lect'ship in Psychology; Dr. Bartholomew, £500 bequest towards Chair of Geog. Development Fund, £7000 towards Chair of Forestry; £2117 towards Chair of Divinity. Several collections of books, etc. An appeal for £500,000 to meet expenditure on new buildings, etc., urgently required, was issued.

SPECIAL EVENTS. Visit by the King and Queen in July, when foundation stone of "The King's Buildings" was laid. Presentation of a War Medal by the Univ. of Paris.

NEW BUILDINGS, ETC. Chemical Laboratory, the first of "The King's Buildings," erected at a cost of £75,000; supplementary buildings, costing £10,000, for anatomy dissections, especially for women students, nearly completed; a lab. for Practical Histology, costing £13,300, provided. Royal Infirmary promised to provide building for Clin. Therapeutics.

HONORARY DEGREES CONFERRED. *D.D.*—H. Falconer, W. S. Jaffray, J. M. Scott, L. M. Watt, J. Henderson. *LL.D.*—Rt. Hon. G. N. Barnes, Emer. Profs. F. M. Caird, A. S. Pringle-Pattison, W. Russell, and G. Saintsbury, Profs. A. A. Macdonell of Oxford and G. N. Stewart (of Cleveland, Ohio), Sir R. T. Glazebrook, Sir P. J. Hamilton-Grierson, Genl. Baron Horne, J. Horne, Mrs. G. Kerr, Rudyard Kipling, Miss S. E. S. Mair, Vice-Admiral Sir H. F. Oliver, Sir Napier Shaw. *Mus.D.*—Prof. G. Bantock of Birmingham.

OTHER DEGREES. M.A.—167, including 61 women; M.B., Ch.B.—150 (women, 46); B.Sc.—87 (w., 13—all in Pure Sc.); B.D.—7; I.L.B. or B.L.—18 (w., 1); Mus.B.—2 (w., 1); B.Ed.—5 (w., 2); M.D.—47 (w., 2); others—7. In 1917–18 and 1918–19: M.A.—108, 141; M.B., Ch.B.—106, 95; B.Sc.—16, 39; M.D.—15, 30; others—12, 13.

NUMBER OF STUDENTS. Preparing for First Degree in Arts, 1105, including women, 504; Science, 1087 (women, 148); Medicine, 1715 (w., 400); Law, 112 (w., 9); Div., 63; Music, 10 (w., 5); for Diploma in Sc., 27; post-graduate and research in Arts, 27 (w., 8); Med., 31 (w., 4); Sc., 5; Div., 2; occasional, 297. Total: full-time, 4182, part-time, 308. Total matriculation, 1917–18 to 1919–20: 2091, 3554, 4643. New students, 1920–21, 1274.

RETIREMENTS OF LECTRS. B. S. Cano, Spanish; A. B. Webster, English, elected to Chair in St. Andrews; R. G. Ritchie, French, elected to Chair in Birm.; J. Miller, Morbid Anat., elected to Chair of Path. in Queen's, Kingston, Ont.

EXTRA-MURAL WORK. Tutorial Class enrolments, Oct. 1920, over 1000 Summer Classes for Teachers were held for 4 weeks during vacation, the lectrs. being drawn mainly from the Univ. Staff.

UNIVERSITY OF GLASGOW

CHANCELLOR—THE EARL OF ROSEBERY AND MIDLOTHIAN, K.G., K T.

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DEAN OF FACULTIES—Emeritus Prof. G. G. RAMSAY, LL.D., Litt.D.

SECRETARY TO THE UNIV. COURT—A. E. CLAPPERTON, LL.D.

CLERK OF SENATE—Prof. G. MILLIGAN, D.D., D.C.L.

REGISTRAR—A. MORRISON.

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—.....

CLERK OF THE GENERAL COUNCIL—A. CRAIG, LL.B , O.I P.

ADVISER OF STUDIES IN ARTS AND SECRETARY TO APPOINTMENTS COMMITTEE—J. R. PEDDIE, M.B.E., M.A.

ADVISER OF STUDIES IN LAW—Prof. W. M. GLOAG, K.C., B.A., LL.D.

ADVISER OF STUDIES IN MEDICINE—Prof. T. H. BRYCE, M.A., M.D.

LOCAL ADVISER TO INDIAN STUDENTS—R M. BROWN, B.Sc.

QUEEN MARGARET COLLEGE

Mistress—Miss F. H. MELVILLE, M.A., B.D.

Tutor in Arts—Miss M. G. MAY, M.A.

Tutor in Science and Medicine—Mrs. A. PICKEN-SALMON, M.A., M.B., Ch.B.

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THE RECTOR, *ex officio.*

THE PRINCIPAL, *ex officio.*

THE LORD PROVOST OF GLASGOW, *ex officio.*

Sir WM. LORIMER, LL.D.

Sir THOS. DUNLOP, Bart., LL.D.

J. BRUCE MURRAY.

DAVID MURRAY, LL.D.

J. HUTCHISON, LL.D.

JOHN SMITH, D.D.

G. S. MIDDLETON, M.D., LL.D.

Prof. MILLIGAN, D.D., D.C.L.

Prof. GRAHAM KERR, F.R.S.

Prof. T. H. BRYCE, M.A., M.D.

Prof. LATTA, D.Phil.

PROFESSORS, LECTURERS, ETC.

Anatomy, v. also Embryol.
Bryce, T. H., M.A., M.D. Edin. Reg. Prof.
Hutton, W. K., M.A., M.B., C.M. Lectr.*
Primrose, W., M.B., Ch.B. Asst.
Harrower, J. G., M.B., Ch.B. Lectr.
M'Gibbon, R.T., M.B., Ch.B. Asst.*
Martin, F. R., M.B. Asst.*
Weir, R. S., M.B. Asst.
Connell, W. K., M.B. Asst.
Fleming, J. P., M.B. Asst.
Morton, J. W., M.B. Asst.
Blair, D. M., M.B. Asst.

Arabic
Weir, T. H., B.D., M.R.A.S. Lectr.

Archæology v. Hist.

Astronomy
Becker, L., Ph.D. Bonn. Reg. Prof.
Connell, J. Lectr.

Botany
Bower, F. O., Sc.D. Camb., D Sc. Syd., LL.D. Aberd., F.R.S. Reg. Prof.
Drummond, J. M. F., M.A. Camb. Lectr
Mann, Annette G., B.Sc. Asst.
Patton, D., M.A., B.Sc. Asst.
Thompson, J. M., M.A., D.Sc (Plant Morphology) Lectr.

Celtic
Calder, G., B.D., D.Litt. Edin. Lectr.

Chem., v. also Physiol.
Henderson, G. G., D.Sc., F.R.S., LL.D. St. And., F.I.C. Reg. Prof.
Bolam, H. W., B.Sc. Edin., Ph.D. Lectr.*
Knox, J., D.Sc. Aberd. Lectr.
Roberts, J., F.C.S. Asst.
Henderson, A., M.A., B.Sc. Asst.
Haugh, Margaret B., B.Sc. Asst.*
Morrison, Jane, M.A. Asst.*

Chem., Organic
Patterson, T. S., D.Sc. Lond. & Glas., Ph.D. Heid. Gardiner Prof.
M'Millan, A., M.A., D.Sc. Lectr.
Coleman, Eva S. E., B.Sc. Asst.
Semple, Jean, B.Sc. Asst.

Chemistry, Physical
Wright, Robert, M.A., D.Sc. Belf. Lectr.
M'Hutchison, J. P., M.A., B.Sc. Asst.

Classics [Prof.
Davies, G. A., M.A. Camb (Greek)
Rennie, W., M.A. (Greek) Lectr.
Gomme, A. W., B.A. (Greek) Lectr.
Kitto, H. D F., B.A. Asst.
Phillimore, J. S., M.A Ox., LL.D. St. And (Humanity) Prof.
..... (Humanity) Asst.
Nisbet, R. G., M.A. (Latin) Lectr.
M'Glynn, P., M.A. (Latin) Lectr.

Divinity, v. also Hebrew
Reid, H. M. B., D.D. St. And. Prof.
Milligan, G., D.D. Aberd., D.C.L. Durh. (Bibl. Crit.) Reg. Prof.
Cooper, J., D.D. Aberd. and Ox., Litt D. Dub., D.C.L. Durh. (Church Hist.) Reg. Prof.

Economics v. Pol. & Social Econ.

Education [Lectr.
Boyd, W., M.A., B.Sc., D.Phil.

Embryology [Asst.
Maclaren, Norman H. W., Ph.D.

Engineering, v. also Naval
Goudie, W. J., D.Sc. Lectr.
Brown, R. M., B.Sc. Lectr.
Spiers, H. M., B.Sc. Lectr.
Scobie, J. Lectr.
Vost, J., B.Sc. Lectr.
Morrison, J. C. Lectr.
Small, J., B.Sc. Lectr.
Tullis, J., B.Sc. Lectr.

* At Queen Margaret Coll.

Engin., Civil, & Mech.
Cormack, J. D., C.M.G., D.Sc., M.I.C.E., M.I.M.E. Reg. Prof.
Blake, A. B., B.Sc. Young Asst.

Engineering, Electrical
..... Lectr.

English Language and Literature
Dixon, W. M., Litt.D. Dub., LL.D. Aber. Reg. Prof.
Bickersteth, G. L., M.A. Lectr.
Renwick, W. L., M.A. Lectr.
Girvan, R., M.A. (Eng. Lang.) Lectr.
Smart, J. S., M.A., D.Litt. Lectr.
Gray, Margaret M., M.A. Asst.
Cowl, R. P., M A. Asst.

French, v. also Mod. Langs.
Martin, C. A., M.A. Paris, O.I.P. Prof.
Pitoy, L. M., B.Sc., L. ès L. Phil. Lectr.
Valette, J. Asst.
Cameron, Mary C., M.A. Asst.
Ferguson, Marjorie, M.A. Asst.

Geography
Stevens, A., M.A., B.Sc. Lectr.
..... Asst.

Geology [Prof.
Gregory, J. W., D.Sc. Lond., F.R.S.
Tyrrell, G. W., A.R.C.Sc. Lectr.
Neilson,* Agnes T. Asst.
Leitch, C. M., B.Sc. Baxter Demr

German [William Jacks Prof
Smith, H., M.A. St. And., Ph.D.
Clark, James M., M.A., Ph.D. Lectr.
Scherrer, M., Ph.D. Asst.

Hebrew and Semitic Langs.
Stevenson, W. B., B.D., D.Litt. Edin. Prof.
Harris, E. J., M.A., B.D. Asst.

History, v. also Div., Law, Pol. Econ.
Medley, D. J., M.A. Ox. Prof.
Browning, A., M.A. Lectr.
Brown, W. E., M.A. Lectr.
Hutton, J. B., M.A. (H. and Archæol., Greek) Lectr.
Miller, S. N., M.A. (H. and Antiq., Roman) Lectr.
Rait, R. S., C.B.E., M.A. Ox. (H. and Lit., Scot.) Prof.
..... Asst.

Humanity v. Classics

Italian
Grillo, E., Litt.D. (Flor.), LL.D. Perugia Lectr.

Law v. *infra*

Logic and Rhetoric
Latta, R., M.A., D.Phil. Edin. Prof.
Russell, L. J., B.Sc., D.Phil. Lectr.
Levett, Margaret J., M.A. Lectr.*
..... Asst.
..... Asst.

Mathematics
Gibson, G. A., LL.D. Edin., M.A. Prof.
M'Arthur, N., M.A., B.Sc. Lectr.
MacRobert, T. M., M.A., D.Sc. Lectr.
M'Whan, J., M.A., Ph.D. Lectr.
Arthur, W., M.A. Asst.
Miller, Andrew H., M.A. Asst.
Roger, Janet, M.A. Asst.

Medicine and Surgery v. *infra*

Metallurgy v. p. 236

Mining
..... Dixon Prof.
..... Asst.

Modern Langs. [Marshall Prof.
Martin, C., M.A. Paris, O.I.P.

Naval Archit., including Marine Engin.
Biles, Sir John H., LL.D. Yale, D.Sc. Harv. John Elder Prof.
Evans, D. L., B.Sc. Asst.

* At Queen Margaret Coll.

Philology, Comparative
Pirie, J. W., M.A. Aberd. Lectr.

Philosophy, Moral, v. also Logic and Psychol.
Jones, Sir Henry, LL.D. St. And., Litt.D. Wales, F.B.A. Prof.
Macbeath, A., M.A. Lectr.
White, Alex. K., M.A. Lectr.
..... Asst.

Philosophy, Natural
Gray, A., LL.D., F.R.S. Prof.
Green, G., M.A., D.Sc. Lectr.
Cochrane, Charles, M.A., B.Sc. Lectr.
Allan, G. E., D.Sc. Birm. Arnott and Thompson Demr. in Expl. Physics and Lectr. in Electricity.
Houstoun, R. A., D.Sc, Ph.D. (Physical Optics) Lectr.

Physics, Applied
Gray, J. G., D.Sc. Prof.

Physiology
Paton, D. Noël, M.D., B.Sc., LL.D. Edin., F.R.S. Reg. Prof.
Paul, J. H., M.A., B.Sc., M.B. Lectr.
Grant, Margaret H., M.A., B.Sc. Asst.
Watson, A. M. (Histology) Lectr.
Henderson, Pearl, B.Sc. Demr.
Wishart, G. M., B.Sc., M.B. Demr.
Davidson, A., M.B. Demr.
Shanks, W. F., B.Sc., M.B. Lectr. & Demr.
Moffat, J., M.B. Demr.
Rennie, J. K., B.Sc., M.B. Demr.

Physiolog. Chem.
Cathcart, E. P., M.D., D.Sc. Gardiner Prof.
Burns, David, M.A., D.Sc. Grieve Lectr.

Polit. Econ. [Adam Smith Prof.
Scott, W. R., M.A., Litt.D. Dub., D.Phil., LL.D. St. And.
Scott, Nelly, B.A. (Econ. Hist.) Lectr.

Political Philosophy
Duff, R. A., M.A., D.Phil. Lectr.

Psychology
Watt, H. J., Ph.D. Wurz., D.Phil. Aberd. Lectr.

Russian [Sir William Weir Lectr.
Brennan, H. G., M.A. Lond.

Social Economics
Cunnison, James, M.A. Lectr.

Theology v. Divinity

Zoology, v. also Embryology
Kerr, J. Graham, M.A., Camb., F.R.S. Reg. Prof.
Floyd, J. M. F., M.A. Ox. Lectr.
Dunkerly, J. S., B.Sc. Lond. Lectr.
Jepps, Margaret W. Asst.

Law

Gloag, W. M., K.C., B.A. Ox., LL.D. Edin. Reg. Prof.

Civil Law
Muirhead, J. S., LL.B. Lectr.

Const. Law and Hist.
Mungo, D. B., LL.B. Lectr.

Conveyancing [Prof.
M'Kechnie, W. S., LL.B., D.Phil.

Evidence and Procedure
Lamond, R., LL.B. Lectr.

Internat. Law, Public, and Internat. Private Law
Nicol, R. M., LL.B. Lectr.

Jurisprudence, Genl.
Mitchell, A. A., LL.B. Lectr.

Mercantile Law
Wright, T. G., LL.B. Prof.

Medicine

Bacteriology [Gardiner Prof.
Browning, C. H., M.D.
Wilson, G. H., M.B. Lectr.
Smith, J. F., M.B. Asst.

Dermatology
Nicol, J. W., M.B., C.M.
M'Call Anderson Mem. Lectr.
M'Intyre, G., M.B., C.M. Lectr.

Ear, Diseases of the
Gray, A. A., M.D. Lectr.
Adam, J., M.D. Lectr.

Eye, Diseases of the
Ballantyne, A. J., M.D. Lectr.

Electrical Diagnosis and Therapeutics [Lectr.
Riddell, J. R , F.R.F.P.S.G.

Forensic Medicine [Reg. Prof.
Glaister, J., M.D., F.C.S.
Glaister, J., Junr., M.B., Ch.B. Asst.

Infancy and Childhood
Findlay, L., M.D., D.Sc. (Med. Diseases) Lectr.
MacLennan, A., M B. (Surgery and Orthopædics) Lectr.

Insanity
Oswald, L. R., M.B., C.M. Lectr.
MacDonald, J. H., M.B., Ch.B. (Psych. Med.)
Mackintosh Lectr.

Materia Medica
Stockman, R., M.D. Edin.
Reg. Prof.
Campbell, David, M.B. Asst.
Clark, G. H., M.D., D.P.H.
Weir Asst.

Medicine [Muirhead Prof.
Hunter, W. K., M.D., D.Sc.
Kennedy, A. M., M.D. Asst.
Fergus, J., M.A., M.D. Asst.

Medicine, Clinical
Cowan, J. M., M.D. Camb., D.Sc. Lectr.
Anderson, J. B. M., M.B. Lectr.
Jack, W. R., M.D., B.Sc. Lectr.
Henderson, J., M.D. Lectr.

Medicine, Practice of [Reg. Prof.
Monro, T. K., M.A., M.D., C.M.
Allan, G. A., M.B. Asst.
Patrick, A., M.A., M.D. Asst.
Adams, D. K., M.A., B.Sc., M.B. Asst.

Midwifery
Cameron, M., M D. Reg. Prof.
Shannon, D., M.B. Lectr.
Cameron, S. J., M.B. Lectr. & Asst.
M'Lellan, A. N., M.B., C.M. Asst.

Nose and Throat, Diseases of the
Syme, W. S., M.D. Lectr.
Harper, J., M.A., M B., Ch.B. Lectr.

Obstetrics and Gynæcology
Kerr, J. M. M , M D. Muirhead Prof.
Hendry, J., M.A., B.Sc., M.B. Asst.

Pathology
Muir, R., M.A., M.D. Edin., Sc.D., F.R.S. Prof.
Dunlop, Ernest M., M.B. Asst.
Forsyth, W. L., M B. Asst.
Blacklock, J. W. S., M B. Asst.
Teacher, J. H , M A., M.D. St. Mungo-Notman Prof.
Burton, J. A. G., M.B., Ch.B. St. Mungo-Notman Asst.
Marshall, Alice J., M.B. Asst.

Pathology, Clinical
..... Lectr.

Pathological Histology
Strachan, A. S., M.A., B.Sc., M.B. Lectr.

Pharmacy
Middleton, J. C., M.A., B.Sc., M.B. Lectr.

Psychological M. v. Insanity

Public Health
Allison, A., M.B , D.P.H. Lectr.

Surgery
Macewen, Sir William, C.B., D.Sc. Ox. & Dub., LL.D. Glas. & Liv., M.D., F.R.S. Reg. Prof.
Macewen, J. A. C., B.Sc., M.B., C.M. Asst.
Dunbar, J , M.B. Asst.
Robertson, G. M'Gregor, M.B. Asst.

Kennedy, R., M.A., D.Sc., M.D. St. Mungo Prof.		Edington, G. H., M.D., D.Sc.	Lectr.
Battersby, J., F.R.C.S.	Asst.	*Tuberculosis, Clinical*	
		Crocket, J., M.D. Edin.	Lectr.
		Macgregor, A. S. M., M.D.	Lectr.
Surgery, Clinical			
M'Gregor, A. N., M.D.	Lectr.	*Venereal Diseases*	
Kay, T., M.B., C.M.	Lectr.	Watson, D., M.B., C.M.	Lectr.

GENERAL INFORMATION (v. also p. 207)

Founded by a Papal Bull in 1451, after the model of Bologna, the Univ. was reconstituted by a Charter of King James VI. of Scotland in 1577. In 1864–70 the old college buildings and site were sold and new buildings were erected in a more suitable position on the crest of a hill (Gilmorehill) to the west of the city. Funds for this were obtained partly from the proceeds of the sale, partly from public subscription, and partly from a Parliamentary grant of £120,000. Queen Margaret College was acquired by gift in 1893 for the use of women students. The Carnegie Trust contributed £60,000 towards the cost of additional buildings which were completed in 1907, and a neighbouring estate was presented by the MacLellan family in 1917.

The LIBRARY, founded in the 15th century, contains 200,000 vols., including 300 books printed before A.D. 1500, and much other material for research. More than 500 current periodicals are taken in. The Hunterian MUSEUM, founded in 1783, contains important collections of MSS., coins, anatomical preparations, zoological and mineral specimens, etc. Large new departments with spacious LABORATORIES have been erected for Engin., Bot., Nat. Philos., Chem., Physiol., Anat., Path., Mat. Med., Forensic Med., Pub. Health. There are BOTANICAL GARDENS and an OBSERVATORY. As Glasgow stands at the centre of the shipbuilding, engineering, mining, and industrial area of Scotland, it offers unique opportunities for technical training. Three large general HOSPLS. are available for clinics, besides special institutions (including Consumption Sanatoria).

FACULTIES. Arts, Science, Medicine, Theology, Law. Depts. of Applied Science—Engineering (Civ., Elec., Mech., Mining, Naval Archit.), Applied Chem., Agric., Public Health, Pharmacy.

DEGREES, v. p. 209. Applications by Overseas students for remission of part of the class attendance for B.Sc. in branches other than Engineering will be considered sympathetically. *Diploma* in Education, 1 yr. course, for graduates (the first yr. of the Ed.B. course). *Certificates* of Proficiency in Engineering Science and in Mining Engin., 3 yrs. courses, of which first yr. may be taken in Roy. Tech. Coll.; no prelim. examn.

The list of extra-academical teachers whose courses in certain subjects are recognized as qualifying *pro tanto* for graduation include several resident outside the United Kingdom, namely in Cape Town (in Nat. Philos., Chem., Bot., Zool.), Grahamstown (Physics, Chem., Bot., Zool.), Johannesburg (Zool. and Chem.), and Stellenbosch (Bot., Chem., Physics).

For detailed information regarding POST-GRADUATE study and research in any Faculty application should be made to the Dean, v. also p. 211. A Post-graduate *Medical* Assocn. organizes demonstrations for Med. Practitioners; fee for series, Nov. to May, 3 gs.; programme obtainable from the Secy., P.-G. Med. Assocn. The Univ.

CLASS FEES. For M.A., 10 gs. per session; B.Sc., 60 gs. for 3 or 4 yrs.; LL.B., 10 gs. per session; B.L., 8 gs.; M.B., Ch.B., about £160 for 5 yrs. Degree Fees, 5 to 10 gs. (Medicine 22 gs.).

SCHOLARSHIPS FOR GRADUATES: about 76 of from £30 to £280 p.a., most of them open only to graduates of Glas. (For undergraduates there are 480, varying in value from £10 to £50 or more p.a., chiefly in the Faculty of Arts, in addition to Bursaries of from £5 to £25, awarded by the Provincial Committee for the training of teachers.) V. also p. 211.

RESIDENCE. Lodgings or board with private families with use of 2 rooms, generally obtainable in neighbourhood of the Univ., for from 35s. to 50s. per week (1919). A few students' hostels or settlements, of limited accommodation, where the charges are lower, are run by private committees or bodies of students and graduates.

PUBLICATIONS. *Calendar* (July); *Glasgow Univ. Magazine*, weekly during winter session; *Examn. Papers*, Prelim. and Degree, 6d. per set; *Annual Handbook* for matriculated students; *Handbook* for Overseas students and graduates.

THE YEAR 1919–20

BENEFACTIONS. Instn. of Engineers and Shipbuilders in Scotland, £30,000 for James Watt Engineering Chair and improvement of labs.; Sir D. M. Stevenson, £20,000 for Chair of Citizenship; Carnegie Trust, £15,000 for Students' Welfare Scheme (Hostels, Unions, Athletics); Sir R. Nivison, Bt., 2 bursaries, £75 each p.a.; friends of late I. Bremner, £609 for prize in Old Norse Lit.; Prof. Reid and friends, £500 for Divinity Students' weekly "Common Meal"; Sir J. P. Maclay, a hostel for men students; Lord Provost's Committee on Russian Studies, £250; D. Sclanders, £400 for prize in Econs. with relation to Commerce, and £400 for 2 prizes in Pol. Econ; Mrs. Smart, £200 for Pol. Econ. Dept., and £200 for Alexr. Smart Prize in Pol. Econ.

HONORARY DEGREES CONFERRED. *LL.D.*—Rt. Hon. Earl Beatty, Hilaire Belloc, Sir Robert Bruce, P. MacG. Chalmers, F. C. Gardiner, Lt.-Gen. Sir David Henderson, Dir.-Genl., League of Red Cross Societies, Dr. J. Macintyre, Sir R. W. Philip, D. Baird Smith, J. A. Spens, Rt. Hon. J. W. Stewart. *D.D.*—J. T. Forbes, W. Fulton, D B. Macdonald, J. MacGibbon, Very Rev. H. Rashdall, J. H. Shakespeare, J. Webster, J. White.

OTHER DEGREES (1917–18 to 1919–20). M.A.—101, 165, 224; LL.B. or B.L.—2, 5, 20; M.D.—8, 6, 17; M.B., Ch.B.—93, 92, 111; B.D.—2, 2, 3; B.Sc.—24, 35, 91; D.Phil. or D.Sc.—2, 8, 5.

NUMBER OF STUDENTS preparing for first degree in Arts, 1132, including 460 women; Pure Science, 272 (women, 89); Medicine, 1834 (w., 463); Law, 66 (w., 6); Theol., 30; Engineering, 570; Applied Chem., 162 (w., 16); Agric., 34; Pub. Health., 3. Research and Post-graduate, 19 (w., 7). Occasional, 40. Total: full-time, 4052; part-time, 116. Totals, 1917–1918 and 1918–19: 1917, 2418.

RESIGNATIONS. W. J. Dilling, Lectr., Mat. Med., apptd. Lectr. in Pharmacology in Liverpool; W. Downie, Lectr., Laryn., etc.; M. Ramsay, Lectr., Ophth.; A. H. Charteris, apptd. Prof. of Internat. Law in Sydney; A. S. Tritton, apptd. Prof. of Arabic at Aligarh; J. W. Scott, apptd. Prof. of Philos. at Cardiff; W. Anderson, apptd. Prof. of Philos. at Auckland, N.Z.

THE ROYAL TECHNICAL COLLEGE, GLASGOW

[Affiliated with the University of Glasgow.]

Chairman of the Board of Governors—Sir George Beilby, LL.D., D.Sc., F.R.S., F.I.C.

Director—H. F. Stockdale, LL.D.

PROFESSORS, LECTURERS, ETC.

Chemistry, Technical

Gray, T., D.Sc., Ph.D., F.I.C. Young Prof. and Dir. of the Sch. of Chem.
Cruikshanks, G. S., Ph.D., F.I.C. Lectr.
Buchanan, Walter J., A.R.T.C. Asst.
Heriot, T. H. P., F.I.C. (Sugar Manuf.) Lectr.

Chem., Inorg. and Analyt.

Caven, R. M., D.Sc., F.I.C. Prof.
Sutherland, Maggie M. J., D.Sc., F.I.C. Lectr.
Cranston, J. A., D.Sc., A.I.C. Lectr
Gordon, P. F., A.I.C. Lectr.
Duncan, J. G., A.I.C. Lectr.
Burnett, R. A., M.A., B.Sc. Demr.
Pickering, E. C., B.Sc., A.I.C. Demr.
Wheeler, T. S., A.R.C.S.I. Demr.
Brown, A. C. Demr.

Chemistry, Organic [Prof.

Wilson, F. J., D.Sc., Ph.D., F.I.C.
Cumming, W. M., B.Sc. Lectr.
Hopper, I. V., B.Sc., A.R.C.S.I., F.I.C. Lectr.

Dyeing, Bleaching, etc.

Steven, A. B., B.Sc., F.I.C. Lectr.

Engineering, Civil

Moncur, G., B.Sc., M.I.C.E. Prof.
Clark, D., B.Sc., A.M.I.C.E. Lectr. & Asst.
Thomson, G., M.A., M.I.C.E. (San. Eng.) Lectr.

Engineering, Electrical

Maclean, M., M.A., D.Sc., LL.D., M.I.C.E., M.I.E.E. Prof.
MacKellar, D. J., B.Sc., A.R.T.C., A.M.I.E.E. Lectr.
Salzmann, O. M., B.Sc. Asst.
Murray, John, B.Sc. Asst.
Carnegie, J. Asst.
Harrold, J. H. (Wireless Tel.) Lectr.

Engineering, Mechanics

Longbottom, J. G., A.R.C.S., M.I.M.E Prof.
Blackadder, W., B.Sc., A.M.I.C.E. Lectr.
Blacklock, W., B.Sc. Lectr.
Ramsay, J., A.M.I.C.E. Asst.
Grassie, J. C., B.Sc. Asst.

Engineering, Mechanical [Prof.

Mellanby, A. L., D.Sc., M.I.M.E.
Sinclair, J. H., M.Sc., B.Eng. Lectr.
Kerr, Wm., A.R.T.C. Asst.
Ferguson, W. Asst.
Milnes, W. A. Asst.
Smith, J., B.Sc. Asst.
Sneeden, O., B.Sc. Asst.
Garrick, J. A., B.Sc. Asst.

Engineering, Mining

Burns, D., M.I.M.E. Prof.
Stevenson, J. Lectr.
Miller, Wm. Asst.

Geology, Economic
Edwards, E. J., M.Sc., F.R.G.S. Lectr.

Mathematics
Miller, J., M.A., D.Sc. Prof.
Paul, J., M.A., B.Sc. Lectr.
Burrell, W. G., M.A. Asst Lectr.

Metallurgy
Andrew, J. H., D.Sc. Prof.
Regan, W., B.Sc., A.R.T.C. Asst.

Metallurgical Chemistry
Hay, R., B.Sc , A.I.C. Lectr.

Natural Philosophy
Muir, J., M.A., D.Sc. Freeland Prof.
Rankin, J. S., B.Sc., A.R.T.C. Lectr.
Duncan, T. B., M.C., M.A. Lectr. & Demr.
Cameron, Jessie G., M.A. Lectr. & Demr.
M'Kerracher, D , B Sc., A.R.T.C. Asst.

Sugar Manufacture v. Chem.

Technical Bacteriology
Ellis, D., D.Sc., Ph.D. Lectr.

GENERAL INFORMATION

Anderson's College, founded in 1796, the College of Science and Arts (1823, the first "Mechanics' Institution"), and the Atkinson Institution (1861), were amalgamated in 1886 under the title of the Glasgow and West of Scotland Technical College, which was changed in Feb. 1912 to the Royal Technical College. The College was affiliated to the Univ. of Glasgow in March 1913.

The College building, comprising over 7 acres of floor space, cost, with equipment, £400,000. Qualifying courses are provided in the subjects named above for Degrees of the Univ. in Applied Science and for the Diploma of the College. Courses in the following qualify for the Diploma only: Archit. and Building, Naval Archit., Textile Manuf. There are also Departments of Navign., Pharmacy, and Biol., as well as numerous evening classes in other subjects, mainly technological. The courses for the Diploma cover 3 (in Chem. and Metall., 4) yrs.; for the Associateship in any of the Diploma subjects, attendance during 4 yrs. is required.

FEES for tuition: 15 gs. and 20 gs. p.a.

THE YEAR 1919–20

BENEFACTIONS. Bellahouston Trustees, £1000 p.a. for 5 years. Donations, etc., to New Development Fund, £2368.

NEW LABORATORIES. Two additional, containing 100 benches for the School of Applied Chemistry. One addl. for Geol.

NEW DEVELOPMENTS. Establishment of a complete School of Pharmacy.

NUMBER OF STUDENTS. Graduating and Diploma students in Applied Science admitted for the first time, 398 men and 2 women Total full-time Research, Graduating, and Diploma students, 561 men and 6 women. Part-time Diploma students, 255 men. Part-time students attending classes of Degree or Diploma standard, 2716 men and 76 women, of whom 97 were graduates of 11 different Univs. Other part-time students, 2076. Totals, full-time, 567; part-time, 5123. 48 day-students were from abroad: Norway, 15; India, 9; Serbia, 4; Brit. W. Indies, 3; S. Africa, 3; China, 3; Denmark, 2; other countries, 9.

DEGREES obtained, 41. Diplomas, 29.

UNIVERSITY OF ST. ANDREWS

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—Rt. Hon. LORD BALFOUR OF BURLEIGH, K.T., LL.D., G.C.M.G.

VICE-CHANCELLOR AND PRINCIPAL OF THE UNIVERSITY AND OF THE UNITED COLLEGE—JAMES COLQUHOUN IRVINE, Ph.D., D.Sc., F.R.S , C.B.E.

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—Sir JAMES MATTHEW BARRIE, Bart., M.A., LL.D.

SECRETARY AND REGISTRAR—ANDREW BENNETT.

LIBRARIAN—J. M. ANDERSON, LL.D.

PRINCIPAL OF ST. MARY'S COLLEGE—Very Rev. G. GALLOWAY, M.A., D.Phil., D.D.

PRINCIPAL OF UNIVERSITY COLLEGE, DUNDEE—J. Y. MACKAY, M.D., LL.D.

ADVISERS OF STUDENTS AT ST. ANDREWS: IN ARTS—Prof. BURNET; IN SCIENCE—Principal IRVINE; IN MEDICINE—Prof. HERRING.

AT DUNDEE: IN ARTS AND SCIENCE—Prof. STEGGALL; IN MEDICINE—Prof. CHARTERIS.

UNIVERSITY COURT

PRESIDENT—THE RECTOR.

THE PRINCIPAL, *ex officio*.

THE PRINCIPALS OF ST. MARY'S COLLEGE and UNIVERSITY COLLEGE, DUNDEE, *ex officio*.

THE PROVOST OF ST. ANDREWS and THE LORD PROVOST OF DUNDEE, *ex officio*.

JAMES YOUNGER, LL.D.

WILLIAM LOW, O.B E., LL.D.

W. BARRIE DOW, M D.

J. M. DAWSON, M.A.

JAMES THOMSON, M.A., LL.B.

JAMES CUNNINGHAM, M.A., LL.D.

Prof. IRVINE.

Prof. MCKENZIE.

Prof. KAY.

SECY.—ANDREW BENNETT.

PROFESSORS, LECTURERS, ETC.

Anatomy

Waterston, D., M.A., M.D., C.M. Edin. Bute Prof.

Mackay, J. Y., M.D. Edin., LL.D. Prof.*

Dow, D. R., M.B., Ch.B. (Regional A.) Lectr. & Asst.

Taylor, John, M.D., Ch.M. Lectr. & Asst.*

Robertson, W. G., M.B., Ch.B. Asst.

Dobbie, Edith D., M.B., Ch.B. Hon. Demr.

Archæology v. History

* At Dundee.

Biology v. Nat. Hist.

Botany
..... Prof.*
West, G. Lectr. and Asst.*
Robertson, R. A., M.A., B.Sc. Reader & Lectr.

Chemistry
Irvine, J. C., C.B.E., D.Sc., Ph.D. Leip., F.R.S. Prof.
Macbeth, A. K., D.Sc. Belf. Lectr.
Steele, Ettie S., M.A., B.Sc., Ph.D. Lectr. & Asst.
M'Kenzie, Alex., M.A., D.Sc., Ph.D. Berl., F.R.S. Prof.*
Boyle, J. S. W., M.A., B.Sc. Lectr. & Asst.*
Hynd, Alex., M.A., D.Sc. Lectr.
Gilchrist, Helen S., B.Sc. Asst.
Hirst, E. L., M.A., B.Sc. Asst.
Walker, Nellie, B.Sc., M.A. Asst.*
Macdougall, Eliz., B.Sc. Asst.*

Classics
Burnet, J., M.A. Ox., LL.D. Edin., Ph.D., F.B.A. (Greek) Prof.
Lorimer, W. L., M.A. (Greek) Lectr. & Asst.
Dall, Mrs. A., M.A. Asst.
Lindsay, W. M., M.A. Ox., LL.D., Litt.D., Ph.D., F.B.A. (Humanity) Prof.
Thomson, H. J., M.A. (Latin) Lectr. & Asst.
Mills, T. R., M.A. (Latin) Lectr.*

Divinity
Galloway, G., M.A., D.Phil., D.D. Edin. Primarius Prof.
Duncan, G. S., O.B.E., M.A., B.D., B.A. (Bibl. Crit.) Prof.
Main, A., M.A. Glas., B.A. Ox., D.Litt. Glas. (Eccl. Hist.) Prof.

Education
Edgar, J., M.A. Glas., B.A. Ox., F.S.A. Scot. Prof.†

Embryology, Comparative
Collinge, W. E., M.Sc. Birm., D.Sc. (Asst. in Nat. Hist.) Lectr.

Engineering, Civ. and Mech., and Drawing
Fulton, A., D.Sc. Prof.*
..... Lectr. & Asst.*
Ritchie, E. G., B.Sc. Asst.*

Engineering, Electrical
The Prof. of Physics Prof.*
Robson, W. A. Asst.

English Lang. and Lit.
Webster, A. B., M.A. Berry Prof. of E. Lit.
Soutar, G., M.A., D.Litt. Lectr.*
Martin, Linda K., M.A. Asst.

French Lang. and Lit. and Rom. Philol.
Lewis, C. B., B.A., L. ès L., Ph.D. Lectr.†
Tanquerey, F. J., L. ès L., B.Sc., D.Litt., O.A. Lectr.†
Jardin, Renée, L. ès L. Asst.†

Geology
Innes, D. E. I., B.A. Lectr.†

German and Teut. Philol.
Smith, Muriel, M.A. Lectr.
Hayens, K., M.A. Lectr.*

Hebrew & Oriental Langs.
Kay, D. M., D.D. Edin., M.A., B.Sc. Prof.
..... Asst.

History, Ancient, and Archæol.
Burnet, Professor Lectr.

History, Mediæval [Lectr.†
Williams, J. W., M.A., B.Litt. Ox.

History, Modern
Mackie, J. D., M.A. Lectr.†
Osgood, Ethel J., M.A. Asst.

Law, Scots [Lectr.*
Allison, J., C.B.E., M.A., LL.B.

* At Dundee. † At St. Andrews and Dundee.

Logic and Metaphysics
Stout, G. F., M.A. Camb., LL.D., F.B.A. Prof.

Logic and Psychology
Morrison, D., M.A. Lectr.†
Wright, J. N. Asst.†

Mathematics and Applied Maths.
Lang, Sir P. R. Scott, M.A., B.Sc. Reg. Prof.
Steggall, J. E. A., M.A. Camb. Prof.*
Saddler, W., M.A. Lectr. & Asst.
Butchart, R. K., B.Sc. Lectr. & Asst.*
Boyter, Margaret P. Asst.
Black, C., B.A. Asst.*

Medicine and Surgery v. *infra*

Natural History, v. also Embr.
Thompson, D'A. W., C.B., M.A., D.Litt., F.R.S. Prof.
Gemmill, J. F., M.A., D.Sc., M D. Glas. Prof.*
Low, James W., B.Sc. Asst.*
Collinge, W. E., D.Sc. Asst.

Philosophy, Moral, v. also Logic
Taylor, A. E., M.A. Ox., D.Litt., F.B.A. Prof.
..... Asst.

Philosophy, Natural
Butler, A. S , M.A. Ox. Prof.
Bagot, J. C. Lectr. & Asst.

Physics
Peddie, W., D.Sc. Edin. Harris Prof.*
Robson, W. G., A.R.C.S. Lectr. & Asst.*
Forrest, J., M.A., B.Sc. Asst.*
Malcolm, Ada, B.Sc. Asst.*

Physiology
Herring, P. T., M.D. Edin. Chandos Prof.
Reid, E. W., B.A., M.B., Sc.D. Camb., F.R.S. Prof.*
Mason, Florence B., M.A., M.B., Ch.B. Asst.*
Pryde, J. Demr.
Buist, Margt. Demr.
Napier, G. Demr.
Burt, D. R. Demr.

Political Economy
Morrison, C., M.A., LL.B. Lectr.

Psychology v. Logic

Pub. Health v. Med.—Fevers

Theology v. Divinity

Zoology v. Embryol. and Nat. Hist.

Medicine

Anæsthetics
Mills, Arthur, M.D. Lectr.*

Bacteriology
Tulloch, W. J., M.D. Lectr.*
Macnaughton, F. G., M.D., D.T.M. and H. Lectr.
Alexander, Walter, M.B., Ch.B. Asst.*

Diseases of Children
Rogers, J. S. Y., M.B., C.M. Lectr.*
Price, Prof. Ll. T. Lectr.*

Diseases, Mental
Mackenzie, W. T., M.D. Lectr.*

Diseases, Throat, Nose, and Ear
Mathers, R. P., M.D. Lectr.*

Diseases, Skin
Milne, F. M., M.A., B.Sc., M.B., Ch.B. Lectr.*

Fevers and Pub. Health
Burgess, W. L., M.B., Ch.B., M.D., D.P.H., D.T.M. and H. Lectr.

Forensic Medicine
Lennox, D., M.D. Lectr.*

Materia Medica
Charteris, F. J., M.D. Glas. Prof.*
Buchanan, W. E. A., M.B., Ch.B. Asst.*

Medicine
Stalker, A. M., M.A., C.M., M.D. Edin. Prof.*
Stalker, J. M., M.B., Ch.B. Asst.*

* At Dundee. † At St. Andrews and Dundee.

Medicine, Clinical *
Profs. Charteris and Stalker, Drs. Mackie-Whyte, Foggie, and Kerr (Lectrs.), Drs. Stalker, Malcolm, Scott, and Rankine (Tutors).

Midwifery
Kynoch, J. A. C., M.B., C.M. Edin. Prof.*
Fairlie, Margaret, M.B., Ch.B. Asst. & Tutor.

Midw. and Gynæc.
Buist, R. C., M.A., M.D. Lectr *

Ophthalmology
M'Gillivray, A , C.M., M.D. Aberd., D.Sc. Lond. Reader & Lectr.*
M'Gillivray, Allister, M.B., Ch.B. Asst.*

Pathology
Sutherland, L. R., M.B., C.M Glas. Prof.*
Tudhope, G. R., M.B., Ch.B., D.P.H. Asst. & Lectr.*

Pathology, Clinical
Milne, F. M., M.A., B.Sc., M B , Ch.B. Lectr.*

Surgery
Price, Ll. T., M.B., C.M. Prof.*
Brown, F. R , M.B , Ch.B. Asst.*

Surgery, Clinical
Anderson, J. Lectr.*
Prof. Price Lectr.*
Taylor, John, M.D., Ch.M. Tutor.*
Brown, F. R., M.B., Ch.B. Tutor.*

Vaccination
Scott, Douglas, M.B., Ch.B. Lectr.*

* At Dundee.

GENERAL INFORMATION (v. also p. 207).

The University was founded in 1411. In 1747 St. Salvator's (1450) and St. Leonard's (1512) Colleges were united under the name, "United College of St. Salvator and St. Leonard." St. Mary's College (1537) has, since 1579, been restricted to the teaching of Theology. University College, Dundee (1880), was affiliated to and made to form part of the University in 1897.

LIBRARY: 160,000 printed vols. (some of 15th and 16th centuries). MSS. include fine Persian specimens and large folio Antiphonarium. College Library at Dundee. MUSEUMS at St. Andrews—Anat., Anthrop., Ethnol., Geol., Mineral., Nat. Hist.,; at Dundee—Geol., Med., Nat. Hist. LABORATORIES at St. Andrews—in all above depts. except Med., also Chem. (with special Research lab.), Marine, Physics, Physiol., Bot. Garden. At Dundee—Anat., Bact., Chem., Embryol., Engin. (Elec., Hydraulic, Mech.), Mat. Med., Maths., Nat. Hist., Physics, Physiol.

DEGREES, ETC., v. p. 209. Courses for graduation in Arts and Science are given both in the United Coll., St. And., and in Univ. Coll., Dundee, some being given in both places, some—Greek, Hebrew, Hist., Moral Philos., Pol. Econ.—only in St. And., some—Engineering—only in Dundee. Medical studies after the first two yrs. are taken solely in Dundee, where facilities for clinical instruction are available. Here also are provided courses in Scots Law. Associated with the Univ. is the Dundee School of Social Study and Training.

The M.A. Course includes a General and a Special Examn. The former, which must be completed before proceeding to the Special, embraces at least 5 subjects, of which Logic must be one, at least two must be Linguistic, and at least one Scientific. Languages must include either (*a*) Latin or Greek, or (*b*) French and German. The Science may be either (1) Maths., or (2) Nat. Philos., or (3) Chem.

Either (*a*) or (1) must be taken by every candidate. In the Special Examn. two cognate subjects must be taken, the whole examn. being passed at one time.

Diplomas: Education, for graduates who complete the first year of the Ed.B. course; D.P.H., 9 months; L.D.S., 4 yrs.; L.L.A. (for women), attendance on courses not required, standard about the same as that of the ordinary M.A.

FEES for Tuition: M.A. 30 gs., Hons. 40, B.Sc. 60, B L. 22, LL.B. 30, M.B., Ch.B. 130. Combined Courses: M.A. and B.Sc., 75 gs.; M.A. and LL.B., 50; M.A. and B.L., 45; M.A. and M.B., Ch.B., 145; M.A., B.Sc. and M.B., Ch.B., 160; B.Sc. and M.B., Ch B., 150. The above do not include fees for hospl. ticket or cases of labour, or laboratory fees for use of apparatus, etc. L.D.S., £75: 8s. Maximum fee for Research students, 5 gs. a term. Degree fees. M.A. or B.D., 5 gs.; B.Sc., B.Phil., or B.Litt., 6; M.B., Ch.B., 22; M.D. or Ch.M., 15; D. Litt., D.Sc, Ph.D., L.D.S., or D.P.H., 10. *N.B.*—See p. 210: Fees to be raised.

RESIDENCE. University Hall for Women (Warden) at St. Andrews, £66 and upwards p a, exclusive of tuition fees. Hostel for women students, Dundee (Warden), £40 p.a. A hostel for men at St Andrews will probably be opened in 1921.

SCHOLARSHIPS FOR GRADUATES: 20, annual value about £1200; v. also p. 211.

PUBLICATIONS. *Calendar* (June), 3s. 6d.; U. Coll., Dundee, *Calendar*, 6d.; Students' Repve. Council's *College Echoes* (St. And.) and *The College* (Dundee).

THE YEAR 1919–20

BENEFACTIONS. Wm. Low, £6500 for improving Men Students' Union; Mr. and Mrs. J. Younger, site for Graduation Hall; W. J. Matheson of New York, £2000 for bursaries; Miss J. I. Low, £200 for annual prize in Mod. Hist.

ACCOMMODATION of Depts. of Anat. and Physiol. enlarged by structural alterations.

NEW DEPARTMENTS AND POSTS. Lectrs. in Clin. Chem. and Bact. at St. And. in association with new Clin. Med. Inst. established by Sir J. Mackenzie; Lectr. in Mediæval Hist. at St. And. made permanent; Depts. of Forensic Med. and Pub. Health previously under one Lectr. separated, new post of Lectr. in F.M. being created; Title of Reader conferred on Lectr. in Ophth.; Lectrs. in Clin. Med. increased from 2 to 5, Clin. Tutors from 1 to 4; Assts. in Bact., Ophth., and Mod. Hist. The Chairs of Bibl. Criticism and Nat. Hist., vacant since 1916 and 1917, were filled.

NEW ORDINANCES, enabling Diploma granted to women by Oxford or Camb. to be recognized as a previous degree with a view to higher degrees in Arts, and instituting Degree of B.Com.

CO-OPERATIVE RELATIONS established with School of Social Study and Training in Dundee, in connection with which a Diploma and Certificate are projected, and with the Dundee branch of the Workers' Ed. Assocn.

HONORARY DEGREES CONFERRED. *D.D.*—R. K. Moncrieff, J. E. Roberts, G. G. Stott. *LL.D.*—Sir Dugald Clark, Jas. Cunningham, Leon Fredericq of Liége, R. A. Herman of Cambridge, W. J. Matheson of New York, N. Kemp Smith, Norman Walker.

OTHER DEGREES. M.A.—55; B.Phil.—1; B.Litt.—1; B.Sc.—23; D.Sc.—3; M.B., Ch.B.—11; B.D.—3; Ph.D.—7.

NUMBER OF STUDENTS. Full-time preparing for first degree, 613 (including 221 women); Research students, 100 (45 women); occasionals, 84 (38 women). Total, 797 (304 women). In 1917–19: 318, 525. Matriculated for first time in 1920, 232 (88 women).

DEATHS. Sir John Herkless, Principal and Vice-Chancellor, June 1920 (Prof. Irvine was appointed Principal in Dec. and V.C. in Jan.); J. H. Wilson, Lectr. in Agr., Jan. 1920.

RETIREMENTS. Earl Haig as Rector (on expiry of term of office); D. MacEwan, Prof. of Surgery; C. R. Marshall, Prof. of Materia Med. (apptd. Regius Prof. in Aberd.), succeeded by F. J. Charteris from Glasgow; A. Lawson, Prof. of Engl. Lang. and Lit., succeeded by A. B. Webster from Edin.; A. H. Gibson, Prof. of Engineering (apptd. Prof. in Manc.); R. C. Buist, as Lectr. in Vaccination; W. E. Foggie, as Lectr. in Diseases of the Skin; C. Kerr, as Clin. Med. Tutor; J. C. Lamont, Lectr. in Regional Anat.; D. M. Greig, Lectr. in Clin. Surg.; J. A. Roy, Lectr. in Engl. (apptd. Assoc. Prof. in Queen's, Kingston, Canada); T. P. Young, Lectr. in French, etc. (apptd. Principal of Glas. and W. of Scotland Comml. College), succeeded by C. B. Lewis from Armstrong Coll.; C. D. Broad, Lectr. in Logic, etc. (apptd. Prof. at Bristol); W. N. Haworth, Ph.D., D.Sc., Reader in Chem. (apptd. Prof. in Armstrong Coll.), succeeded by A. K. Macbeth from Belfast; G. Robertson, Lectr. in Chem. (accepted post under British Alizarine Coy.); Miss G. C. Leitch, Asst. in Chem. (apptd. Lectr. in Armstrong Coll.); J. A. Hewitt, Asst. in Physiol. (apptd. Lectr. in King's Coll., London).

THE QUEEN'S UNIVERSITY OF BELFAST

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. THE EARL OF SHAFTESBURY, K.C.V.O., K.P., LL.D.

PRO-CHANCELLORS—Rt. Hon. Sir JOHN NEWELL JORDAN, G.C.I.E., K.C.B., K.C.M.G., M.A.; Sir HIRAM SHAW WILKINSON, LL.D., D.L.; Prof. Sir SAMUEL DILL, M.A., Litt.D., Hon. LL.D.

PRESIDENT AND VICE-CHANCELLOR—Rt. Hon. and Rev. THOMAS HAMILTON, M.A, D.D., LL.D.

REPRESENTATIVE IN PARLIAMENT—Sir WM. WHITLA, M.A., M.D., LL.D.

REGISTRAR—Prof. T. SINCLAIR, C.B, M.D., M.Ch., F.R.C.S.E.

SECRETARY—J. M. FINNEGAN, B A., B.Sc.

LIBRARIAN—Prof. G. GREGORY SMITH, M.A., LL.D.

CHAIRMAN OF CONVOCATION—JOHN CAMPBELL, M.A., LL.D., M.D., F.R.C.S.E.

PROFESSORS, LECTURERS, ETC.

Accountancy
..... Lectr.

Agricultural Chemistry
Robertson, G. G., M.Sc., B.Sc. Agr., F.C.S. Lectr.

Anatomy
Walmsley, T., M.D. Prof.
McNeill, Helen M., M.B. Asst.
MacFadden, G. D. F., M.B. Asst.
Wheeler, D. R., M.B. Asst.
Hunter, R. H., M.B. Demr. (Embryology).

Anatomy, Applied [Lectr.
Crymble, P. T., M.B., F.R.C.S.

Archæology
..... Lectr.

Bio-Chemistry
Milroy, J. A., M.A., M.D. Lectr.

Botany
Small, J., D.Sc. Prof.
Finnegan, Ina, B.Sc. Demr.
Lynn, Mary J., B.Sc. Demr.

Celtic
O'Connell, F. W., M.A., Litt.D., B.D., M.R.A.S. Lectr.

Chemistry
Stewart, A. W., M.A., D.Sc. Prof.
McErvel, Norah, B.Sc. Asst.
Maxwell, Norah I., B.Sc. Asst.
Watt, Gertrude, B.Sc. Asst.

Chemistry, Applied *

Chemistry, Organic
Graham, Hugh, M.Sc. Lectr.

Classics
Dill, Sir Samuel, M.A., Hon. Litt.D., Hon. LL.D. Ox. (Greek) Prof.

* v. *infra*, Recognized Colls.

Henry, R. M., M.A. (Latin) Prof.
Wilkins, M., M.A. Dub. (Latin) Asst.
Doak, W. B., B.A. Dub. (Greek) Asst.

Commercial Geography
..... Lectr.

Dental Science
Hunter, W M., L.D.S. (Mat. Med) Lectr.
Elwood, H , L.D.S (Mechanics) Lectr.
Swan, H. M., L.D.S. (Surgery) Lectr.
M'Keag, H T. A , B.D S. (Orthod.) Lectr.

Economics, v. also Hist.
Meredith, H. O., O.B.E., M.A., M.Com. Prof.

Education [Prof.
M'Callister, W. J., M.A , B.Sc.
Simms, Florence, B.A. Asst.

Engineering, Civil [Prof.
Hummel, F. H., M.Sc., A.M.I.C.E.,
M'Cann, R. L , B.E. Asst.
Finnan, E., M.Sc. Asst.

Engineering, Elec. & Mech *

English Language
Belfour, A. O., M.A. Lectr.

English Literature [Prof.
Smith, G Gregory, M.A., LL.D.
Poston, M. L., M.A. Asst.

French
Savory, D. L., M.A. Prof.
Scott, Norah W. H., B.A. Asst.
Monsinjon, Charlotte, B. ès L. Asst

Geology and Geography
Dwerryhouse, A. R., D.Sc., F.G.S. Lectr.
Reynolds, Doris, B.Sc. Asst.

German [Prof.
Williams, R. A., Ph.D., D.Litt.

History, Modern
Todd, J. E., M.A. Prof

History, Economic
Lemberger, J., M.A. Lectr.

Law, English
Baxter, J. S., LL.D. Prof.

Law, Jurispr. and Roman
Strahan, J. A., M.A., LL.B. Prof.

Logic and Metaphysics
Laird, J., M.A. Prof.

Mathematics [Prof.
Dixon, A. C., M.A , Sc.D., F.R.S.
Close, Leo J., M.A Asst.

Music
Walker, L., B.A., Mus.D. Lectr.

Philosophy, Moral, and History of Philos.
Dorward, A. J., M.A. Lectr.

Philosophy, Scholastic
O'Keeffe, D., M.A. Lectr.

Physics
Morton, W. B., M.A. Prof.
..... Lectr.
Wylie, J., B.A. Lectr.
Woods, Amy I., B.A , M.Sc. Demr.

Physiology
Milroy, T. H., M.D., B.Sc. Prof.
Lee, J. S., M.B. Demr.
Martin, Edith S., B Sc Demr.

Spanish
Llubera, J. G., D.Litt. Lectr.

Technology v. Tech. Inst., *infra*

Zoology
Wilson, G., O.B.E., M.A., Ph.D, D.Sc., M.R.I.A. Prof.
Riddell, W., M.A. Demr.

Medicine

Gynæcology
Johnstone, R. J., B.A., M.B., F.R.C.S. Eng. Prof.

Hygiene, v. also Pub. Health
Wilson, W. J., B.A., M.D., D.Sc., D.P.H. Lectr.
Blair, E. M., M.Sc. Demr.
Totton, J. H., B.A., B.Sc. Demr.

* v. *infra* Recognized Colls.

Materia Medica
..... Prof.

Mat. Med. and Pharmacy [Demr.
Fielden, V. G. L., M.D., Ph.C.

Medicine
Lindsay, J. A., M.A., M.D., F.R.C.P. Lond. Prof.
Turkington, S. I., M.D., D P H. Asst.

Medical Jurisprudence
The Prof. of Pathology Lectr.
The Demr. in Path., Clin. Lectr.

Midwifery and Infantile Diseases, v. also Vaoc.
Lowry, C. G., M.D., F.R.C S.I. Prof
M'Liesh, J., M.B. Asst.

Ophthalm. and Otology [Lectr.
Craig, J. A., M.B., F.R.C.S.E.

Pathology
Symmers, W. St. C., M.B. Prof.
Malcolm, H. P., M.B. Demr.

Pathology, Clinical
Houston, T., B.A., M.D. Demr.

Path. Neurology
..... Demr.

Pharmacology
..... Lectr.

Public Health [Lectr.
Bailie, H. W., L.R.C.P. and S. Edin, L.F.P.S. Glas., D.P.H.

Surgery
Sinclair, T., C.B., M.D., M.Ch. F.R.C.S. Eng. Prof.
M'Connell, R. J., M.B., M.Ch. Asst.

Vaccination
M'Liesh, J., M.B., D.P.H. (Asst in Midw) Teacher.

University Clinical Lecturers:
Campbell, J., M.D., M.Ch., LL.D
Killen, W. M, M.D., M.Ch.
M'Lornan, W., L.R.C.P. and S.I.
Fulton, J, L.R.C.P. and S.I.

RECOGNIZED COLLEGES AND TEACHERS

MUNICIPAL TECHNICAL INSTITUTE, BELFAST, providing instruction forming part of the Degree courses in: *Mech. Engin.*—Prof. J. H. Smith, D.Sc., A.R.C.S. Lectrs.: G. H. Longworth; W. J. Fforde. *Physics and Elec. Engin.*—Prof. T. H. Matthewman, M.A., M.I.E.E; C. Jefcoat, A.R.C.S.I. *Textile Industries*—Prof. F. Bradbury. *Applied Chem.*—Prof. H. Wren, M.A., D.Sc., Ph.D. *Design*—Prof. I. Beaumont, A.R.C.A. Lond. *Maths.*—J. J. F. Murphy, B.Sc. *Commerce*, etc.—F. T. Lloyd-Dodd, D.Sc. *Accounting*—D. T. Boyd, B.Com.Sc. *Comml. Law*—W. J. M'Cracken, B.A.

ROYAL COLLEGE OF SCIENCE, DUBLIN, providing instruction for the 3rd and 4th yrs. of the B.Sc. (Agr.) courses, v. p. 265.

GENERAL INFORMATION

Queen's College, incorporated in 1849, was dissolved in 1909 on the constitution of the Queen's University of Belfast.

LIBRARY, 90,000 vols. MUSEUMS: Class. Archæol., Nat. Hist., Medical, Materia Medica, Sanitary Science. LABORATORIES: Chemistry ("Donald Currie"), Engineering ("Harland"), Physiology ("Jaffé"), Pathology and Bacteriology ("Musgrave"), Physics, Anat., Bot., Geol., Pharm., Zool. HOSPITALS available for Clinics, 3 general, 10 special (Fever, Maternity, Women, Children, Ophth., Eye, Ear and Throat, Consumption, Lunacy, Skin).

FACULTIES. Arts (including Music), Science (including Agric. and Engin.), Law. Medicine. Commerce. Dept. of Dental Science.

DEGREE COURSES. 3 yrs.—B.A., B.Sc., B.Sc. in Engin. or Textile Tech., LL.B., B.Com.Sc.; 4 yrs.—B.Sc. in Agric.; 5 yrs. (of which 2 may be in other approved Univs. or Med. Schools)—M.B., Ch.B., B.A.O.; 1 yr.—LL.B. course for graduates of this or another Univ.

The courses in Elec. and Mech. Engin. are taken in the Municipal Tech. Inst.; the 3rd and 4th yr. courses for the B.Sc. in Agric. in the R.C.Sc., Dublin. 5 yrs. in the Municipal Inst. qualify for the B.Com.Sc. Evening classes at the Inst. qualify equally with day classes.

Diplomas. Commerce (2 yrs. course); Educn. (1 or 2 yrs.); Higher Dipl. in Educn. (for graduates); Social Training (2 sessions); Higher Dipl. in S.T. (thesis); D.P.H.

HIGHER DEGREES. The M.A. may be taken by a B.A. 1 yr. after graduation (examn. or thesis or independent research). The (1) D.Lit. and (2) LL.D. are conferred on grads. of this Univ. distinguished in (1) letters, or in literary, philos., or hist. research, or (2) Law, or in legal or hist. research. The M.Sc. is open to a B.Sc. of the Univ. and grads. of other Univs. holding a degree of similar rank after the lapse of not less than 1 yr. from graduation (thesis or independent research). The D.Sc. is open to grads. of this Univ. 3 yrs. after graduation in any faculty. It is conferred for research or scientific work in relation to Science pure or applied, or for distinction in Science, Engin., or other practical application of Science. The M.D., M.Ch., and M.A.O. are open to graduates in Medicine of 3 yrs. (if also graduates in Arts or Science, 2 yrs.) standing by examn. or thesis. As regards Ph.D. *see* p. 10.

FEES. Enrolment (annual), 2 gs. Class fees, annual (inclusive)—Arts Honours School, 11 gs.; Engineering, 21 gs.; B.Com.Sc., 8 gs.; Dipl. Educn. or Social Training (2 yrs.), 6 gs.

SCHOLARSHIPS, ETC., FOR GRADUATES of the Univ. Studentships of £50: 5 in Arts, which may be raised by £25 and continued for a 2nd yr.; 4 in Science. Special grants to Med. graduates for original research or clin. study. Mackay Wilson Travelling Med. Scholp., £100. 4 Studentships of the aggregate annual value of £330.

RESIDENCE. Women's Hostel. Board and residence per annum, about £52. Board and lodging obtainable in the town from about 25s. a week upwards.

RECOGNITION OF OTHER UNIVS. Students from other approved Univs. may apply for exemption from a year's attendance for first degree, attendance and examn. in some of the subjects for first degrees in Arts and Science, in consideration of equivalent courses and examns. elsewhere.

PUBLICATION. *Calendar* (Jan.), 2s.

THE YEAR 1919–20

BENEFACTIONS. F. A. Heron, J.P., £6000 for teaching Physical Chem.; for modern studies, following subscriptions *per annum* for 5 yrs.: Ulster Bank, £200; J. Sinclair, £50; Belf. Rope Works, £50; H. Matier & Co., £25.

NEW DEPARTMENTS AND POSTS. Dept. of Dental Science with 4 lectrs.: Clinical instruction will be in Royal Vict. Hospl.; Lectr. in Agr. Chem.; Instructress in French; Chair of Gynæcology; Lectr. in Spanish.

CO-ORDINATION WITH MUNICIPAL TECH. INST. Evening students in Elec. and Mech. Engin. and students in the Faculty of Commerce after a course of study extending over 5 years, who have an approved business or engineering experience, may obtain the Degree of B.Sc. in the Univ.

OTHER DEVELOPMENTS in the Faculty of Law and Dept. of Agr. are probable, in consequence of constitution of Parliament of N. Ireland: the Univ. will return 4 members to it, as well as 1 member to the Imperial Parliament.

DEGREES CONFERRED. B.A.—23; B.Sc.—32; B.Com.Sc.—7; M.B.—63; LL.B.—1; M.A.—9; M.Sc.—6; M.D.—12; M.Ch.—4; D.P.H.—21; Dip. Ed.—3; Higher Dip. Ed.—11.

NUMBER OF STUDENTS. Total, full-time, 995 (in 1917–18 and 1918–19: 741, 888). In Arts, 183 (including 77 women); Science, 198 (63 women); Med., 649 (130 w.); Law, 13 (3 w.); Commerce, 44 (7 w.); Social Training, 8 (6 w.); Research (Physical, Chem., and Physiol. Labs.), 23 (10 w.). Fresh students matriculated in 1920, 230 (81 w.); 7 Indian students in Faculty of Law.

DEATHS. Sir J. Byers, Prof. Midwifery; M. W. Robinson, Lectr. Philos. RETIREMENTS. R. H. Yapp, apptd. Prof. of Botany in Birmingham; A. K. Macbeth, Lectr. in Chem., apptd. Lectr. in St. Andrews.

UNIVERSITY EXTENSION WORK. Lecturers in Agr., 4; W.E.A. students, 43 (20 women).

UNIVERSITY OF DUBLIN, TRINITY COLLEGE

CHANCELLOR—VISCOUNT IVEAGH, K.P., LL.D.

VICE-CHANCELLOR—The Rt. Hon. Sir JAMES H. M. CAMPBELL, Bart., LL.D.

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR); THE LORD CHIEF JUSTICE.

PROVOST—The Rt. Hon. and Most Rev J. H. BERNARD, D.D.

REPRESENTATIVES IN PARLIAMENT—SIR ROBERT H. WOODS, M.Ch.; W. M. JELLETT, B.A.

SENIOR FELLOWS OF THE COLLEGE

Gray, T. T., M.A., Vice-Provost.
Cathcart, G. L., M.A., Auditor.
Purser, L. C., M.A., Litt.D., Bursar.
Roberts, W. R. W., D.D., Senr. Lectr.
Culverwell, E. P., M.A., Senr. Dean and Catechist.
O'Sullivan, A. C., M.A., M.D.
Russell, R., M.A., Registrar.

JUNIOR FELLOWS OF THE COLLEGE

Fry, M. W. J., M.A., Sen Proctor.
†Macran, H. S., M.A.
Gwynn, E. J., M.A.
Thrift, W. E., M.A.
Smyly, J. G., Litt.D.
Mooney, G. W., M.A.
*Kennedy, W., M.A.
*Rogers, R. A. P., M.A.
*†Goligher, W. A., M.A., Litt.D.
*†Fraser, J., M.A.
*†Alton, E. H., M.A.
*Gwynn, R. M., B.D.
†Webb, G. R., M.A., Junr. Bursar and Registrar of Chambers.
*Tate, Sir R. W., K.B.E., M.A., Junr. Dean.
*Thrift, H., M.A.
*†Canning, H., M.A.
*†Luce, A.A., D.D.
*Johnston, J., M.A.
*Henry, J. M , M.A.
†*Godfrey, F. La T., M.A., Junr. Proctor.
Joly, John, Sc.D.
Rowe, C. H., B.A.

* Tutor Fellows.
† Honor. Lecturers for 1920-21.

PUBLIC ORATOR—Sir R. W. TATE, M.A.
LIBRARIAN—J. G. SMYLY, Litt.D.
REGISTRAR—R. RUSSELL, M.A.

REGISTRARS OF THE PROFESSIONAL SCHOOLS

Law—W. A. Goligher, Litt.D.
Physic—A. C. O'Sullivan, M.D.
Engineering—W. E. Thrift, M.A.
Music—H. S. Macran, M.A.
Civil Service—E. H. Alton, M.A.
Education—J. M. Henry, M.A.
Agriculture—J. Joly, Sc.D.
Army—Sir R. W. Tate, M.A.

REGISTRAR OF S. AFRICAN STUDENTS—G. R. WEBB, M.A.
LADY REGISTRAR—OLIVE C. PURSER, M.A.
WARDEN OF TRINITY HALL—ELIZ. M. CUNNINGHAM, M.A.

PROFESSORS, LECTURERS, ETC.

Anatomy, v. Zool. and Med.-Surg.

Anglo-Saxon v. German

Arabic, Persian, and Hindustani
King, Sir L. White, LL.D. (Reader in Ind. Hist.) Prof

Astronomy
Plummer, H. C., M.A. Ox., Royal Astron. of Ireland Prof.
Martin, C. Asst.

Biblical Greek and Hebrew
Gwynn, R. M., B.D. Prof.

Botany
Dixon, H. H., Sc.D Prof.
..... Asst.

Celtic Languages
Gwynn, E. J., M.A. Lectr.

Chemistry
Young, S., Sc.D. Prof.
Ramsden, W. C. Asst.
Bell, J. Demr.

Chemistry, Applied
Werner, E. A., Sc.D. Prof.

Classical Archæol. v. Hist.

Classical Composition
Tate, Sir R. W., M.A. Lectr.

Classics
The Tutorial Staff Lectrs.
Smyly, J. G , Litt D. (Greek) Regius Prof.
Mooney, G. W., M.A. (Latin) Prof.

Dental Surg. and Pathol. [Lectr.
Baker, A. W. W., M.D., M.Dent.Sc.
Friel, E. S., M.Dent.Sc. Lectr. in Orthodontia.

Dental Mechanics
Cockburn, J., L.D.S. Lectr.

Dentistry
Friel, E. S., M.Dent.Sc. (Orthodontia) Lectr.

Divinity, v. also Bibl. Gk., Hist., Theol.
M'Neile, A. H., D.D. Regius Prof.
White, N. J. D., D.D. (Lectr. in Hebrew) Abp. King's Prof.
Jennings, J. A., M.A. Wallace Lectr.
Luce, A. A., D.D. Donnellan Lectr. and Asst.
Green, D. C., B.D. Asst.
Young, E. S , B.D. Asst.

Education
..... Prof.
Henry, J. M., M.A. Lectr.

Engineering
Cotter, J. R., M.A. Lectr.

Engineering, Civil
Alexander, T., M.A.I. Prof.
Jackson, J. T., M.A. Asst.

Engin. Practice, Elec.
Tatlow, W., M.A., B.A.I. Lectr.

Engineering, Elec. Traction
Harriss, G. M. Lectr.

Engineering, Harbour
Griffith, Sir J. P., M.A.I. Hon. Prof.

Engineering, Mech.
Lilly, W. E., M.A., M.A.I., Sc.D. (Asst. in Civ. E.) Lectr.

English Literature
Trench, W. Fitz J., Litt.D. Prof.

French, v. also Romance
The Tutorial Staff Lectrs.

Geology and Mineralogy
Joly, J., M.A., Sc.D. Prof.
Poole, J. H. J., B.A. Research Asst.
Smyth, L. B., Sc.B. (Palæontology) Asst. and Lectr.

German [Prof.
Waterhouse, G., M.A. Camb., Litt.D. (Lectr. in Anglo-Saxon)

Hebrew, v. also Bibl. Greek, Div.
Kennedy, W., M.A. Lectr.
Alton, E. H., M.A. Lectr.

History, Ancient, and Classical Archæol. [Prof.
Goligher, W. A., M.A., Litt.D.
Johnston, J., M.A. Asst.

History, Ecclesiastical
Lawlor, H. J., D.D., Litt.D. (Asst. in Div. and Lectr. on Engl. Bible) Prof.

History, Indian, v. Arabic

History, Modern
Curtis, E., M.A. Ox. (also of Oratory) Erasmus Smith's Prof.
Phillips, W. A., M.A. Ox. Lecky Prof.
Maxwell, Constantia E., M.A. Lectr.

Irish
O'Rahilly, T. F. Prof.

Italian, v. also Romance
Tate, Sir R. W., K.B.E., M.A. Lectr.

Law
Bastable, C. F., LL.D. (also Prof. of Pol. Econ.) Reg. Prof.

Law, Feudal and English
Baxter, J. S., LL.D. Reg. Prof.

Law, Const. and Crim., etc.
Lowry, W., LL.B. Belf. Reid Prof.

Mathematics
Russell, R., M.A. Erasmus Smith's Prof.
Rogers, R. A. P., M.A. Donegal Lectr.
Broderick, T. S., B.A. Lectr.
The Tutorial Staff Lectrs.

Medicine and Surgery v. *infra*

Modern East Indian Langs.
Pope, J. v. S., M.A. Camb. Prof.

Music [Prof.
Kitson, C. H., M.A. Camb., Mus.D. Ox., F.R.C.O.

Oratory v. History
Curtis, E., M.A. Ox. Erasmus Smith's Prof.

Oriental Langs. v. Arabic, Hebrew, Modern, Sansk.

Philosophy, Moral
Macran, H. S., M.A. Prof.

Mental and Moral Science
The Tutorial Staff Lectrs.

Philosophy, Natural
Fry, M. W. J., M.A. Prof.
Fraser, J., M.A. Asst.
The Tutorial Staff Lectrs.

Physics
Thrift, W. E., M.A. Erasmus Smith's Prof. of Nat. & Exper. Philos.

Thrift, H., M.A. Asst.
..... Asst.

Political Economy v. Law

Romance Languages
Rudmose-Brown, T. B., M.A. Aberd., D.Litt. Prof.
Starkie, W. F., B.A. Asst.

Sanskrit and Comp. Philol.
Canning, H., M.A. Prof.

Theology, Pastoral
Hayes, F. C., M.A. Prof.

Zoology and Comp. Anat.
Mackintosh, H. W., M.A. Prof.

Medicine

Anæsthetics
Kirkpatrick, T. P. C., M.D. Lectr.

Bact. and Preventive Medicine
Stokes, A., M.D. Prof.

Dermatology
Beatty, W., M.D. Hon. Prof.

Laryngology and Otology
Woods, Sir Robt. H., M.D., M.Ch. Hon. Prof.

Materia Med. and Pharmacy
Moorhead, T. G., M.D. King's Prof.

Med. Jurispr. and Hygiene
Bewley, H. T., M.D. Lectr.

Medicine, Institutes of
Pringle, H., M.D. King's Prof.
Fearon, W. R., Sc.D. Asst.

Medicine, Practice of
Craig, J., M.D. King's Prof.

Midwifery [King's Prof.
Wilson, T. H., F.R.C.S.I.

Ophthalmology
Holmes, Lt.-Col. G. M., M.D., C.M.G. Montgomery Lectr.

Pathology
O'Sullivan, A. C., M.D. Lectr.
Wigham, J. T., M.D. Asst.
Synge, V. M., M.B. Junr. Asst.

Physic
Purser, J. M., M.D. Regius Prof.

Surgery and Anatomy
Dixon, A. F., M.B., Sc.D. Prof. of *Anat.*
Taylor, E. H., M.D. Regius Prof. of S. & Univ. Anatomist.
Gordon, T. E., M.B. Prof. of S.
Pearson, W., M.D. Asst. in S.
McConnell, A. A., M.B. Lectr. in Applied A.
West, C. M., M.D. Chief Demr.

GENERAL INFORMATION

Trinity College was founded and incorporated by Royal Charter in 1592 as "Mater Universitatis," but no other College has been founded, so that "Dublin Univ." and "Trinity College" are practically interchangeable terms. The Corporation of the College was put on its present basis by Letters Patent of 1637. Letters Patent of 1911 transferred the powers of making statutes from the Crown to the Corporation. The general government of the Univ. is in the hands of the Board of Trinity College, which consists of the Provost, Senior Fellows, 2 representatives of Junior Fellows, and 2 representatives of the non-Fellow Profs. The Univ. Council, formed by representatives from the various Faculties and Schools, has the right of appointment to most Professorships, and in conjunction with the Board can make changes in the curriculum, but otherwise has only advisory functions. The power of making new statutes was reserved to the Crown until 1911, when by Letters Patent this power was given to the Board subject to the consent of a majority of the Fellows and the approval of the Visitors.

The College occupies a large site in the middle of the city, with ample grounds for the athletic clubs.

THE LIBRARY of Trinity College has enjoyed since 1801 the privilege of receiving a copy of every book published in England. It contains 333,000 volumes and 2000 MSS., affording an unrivalled field for the study of Irish palæography. The State papers in the Irish Record Office are another valuable source available for research in Irish History and Genealogy. A catalogue of MSS. in the Library was published in 1900.

MUSEUMS. Zool. and Comp. Anat., Surg. and Med. Path., Mat. Med., Anthropometric, Engineering models, Geol. and Mineral., Nat. Philos.

LABORATORIES. Zool., Mat. Med., Anthrop., Physical (Iveagh), Mech. Engin.

HERBARIUM (rich in plants of N. America, India, S. Africa, and Australia). BOTANIC GARDENS, 8 acres.

The Astronomical Observatory of Trinity College is at Dunsink, 5 miles from the College. It is the official residence of the Royal Astronomer of Ireland.

Ample facilities for clinical studies and many appointments for graduates are available in numerous HOSPITALS, including the well-known Rotunda. The Irish High Court is situated within a short distance of the College.

DEGREES. Every student must take the B.A. before proceeding to any other degree, except those in music. The course lasts 4 yrs., but it is only necessary to keep 2 out of the 3 terms in each, or 8 in all. It is also possible to complete the course within 3 yrs. from entrance by taking the final examn. of the 1st yr. at the time of entering and keeping all 3 terms of the 2nd yr. All students not in a professional school are required to attend Arts lectures in every term, unless specially exempted (*e.g.* those earning their living by teaching). If exempted they are permitted to keep all of their 8 terms by examn. instead of by attendance.

For the first 2 yrs. (Junr. and Senr. Freshman) all subjects are compulsory: Algebra, Geom., Trig., Mech., Logic, Engl. Essay, Latin, Greek *or* French *or* German. After the examn. ("Little-Go") at the end of the 2nd yr. wide freedom of choice is allowed of subjects for the remaining (Junior and Senr. Sophister) yrs., and exemption from one subject is granted to Law, Engin., and Div. students. For Med. students there is a specially reduced Arts course throughout.

Pass Arts teaching is given by the Tutor Fellows, and is partly of a catechetical nature. Every student must choose one of the Tutor Fellows (see list above) as his Tutor and should apply to him for all information before and after entrance.

The *Honour* B.A.—known as a *Moderatorship*—can be taken in ten different groups (viz. 1 Math., 2 Class., 3 Ment. and Mor. Philos., 4 Exp. Sc., 5 Nat. Sc., 6 Hist. and Pol. Sc., 7 Mod. Lit., 8 Leg. and Pol. Sc., 9 Eng. Sc., 10 Celtic), and undergraduate honours in the same subjects (except No. 9) can be obtained in each academic year and in some subjects in each term. The course lasts four years in the case of Nos. 1, 2, 4, 5, 6, 7, three years in Nos. 3 and 10, and two years in No. 8. Instruction in these Honour courses is given partly by the Profs. and partly by the Tutorial staff.

A B.A. of three years standing may be admitted M.A. There is no examn. for this, nor is a thesis required.

The B.D. is obtained by an examn. open to all grads. in Arts, and the D.D. is open to any B.D. of three years standing, and is awarded on a thesis or published Theol. work.

The LL.B. course covers 2 yrs.; the M.B., B.Ch., and B.A.O., 5 yrs.; B.Dent.Sc., 4 yrs.; B.A.I., 3 yrs. (optional 4th yr. in Elec. and Mech. Engin.); Agr. B. or Agr. (Forest) B., 4 yrs., of which 3rd and 4th are taken in Roy. Coll. of Sc. The Sc.B. and Ph.D. (v. p. 10) involve post-graduate study and research for 1 yr. and 2 yrs. respectively.

A candidate for the Sc.D. or Litt.D. must have at least 3 yrs. standing as B.A., and submit important original work. A LL.D. must be of M.A. standing. A M.D. must have taken the M.B. degree and be of M.A. standing; a M.Ch. must be a B.Ch. of 3 yrs. standing; a M.A.O., a B.A.O. of 2 yrs. standing; a thesis or examn. is required for M.D., an examn. for the M.Ch. or M.A.O. A M.Dent.Sc. must be a B.Dent.Sc. of 1 yrs. standing, and pass an examn. A M.A.I. must have practised his profession for 3 yrs. after graduating as B.A.I. The Mus.D. is granted after an exercise or practical test.

DIPLOMAS in Agric., Educn., Econ. and Comml. Knowledge, Elec. Engin., Gynæc. and Obst. (1 yr. course), D.P.H., Religious Knowledge (women).

Testimonium in Divinity (2 yrs. course).

RECOGNITION OF OTHER UNIVS., ETC. Credit is allowed for terms kept at Oxford or Cambridge, but no student or graduate of any other Univ. can take the B.A. unless he has kept at least 2 yrs. at Trinity College. No student can take any medical degree unless he has attended at least 3 yrs. in Trinity College.

A B.A., B.Sc., or M.A. of any of the undermentioned Univs. may be allowed credit *pro tanto* for the first 2 yrs. and the examn. held at their expiration: Aberd., Belf., Birm., Brist., Edin., Glas., Leeds, Liver., Lond., Manch., St. And., Sheff., Wales, and Nat. Univ. of Ireland.

A student who has passed two years in Arts studies at any of the undermentioned Univs. and passed the examns. belonging to that period is given credit *pro tanto* for the first academic year: Adel., All., Bom., Cal., McGill, Madr., Mel., N. Brun., N. Zea., Panj., Syd., Tas., Tor., King's Coll., Windsor.

A student who has passed the Matricn. examn. of any Univ. in S. Africa, including Latin and either French, German, Dutch, or Greek, is admitted without further examn., and, if a Med. student, is excused the Prelim. Med. examn. If he has also obtained credit for attendance for one year in Phys., Chem., Bot., and Zool. at Cape Town or Stellenbosch or one of the following Colls.—Natal, Grey, Rhodes, Transvaal—he may on certain conditions reduce his period of study in Dublin by one year. A student who has passed in Bot., Zool., Chem., and Physics at the 1st B.Sc. (Agric.) examn. of any Univ. in S. Africa is exempt from the corresponding portions of the Prelim. Scientific examn., and, if he has credit for a 6 mos. course in Anat. and dissections at Cape Town, may present himself for the Final examn. of the 2nd collegiate year. If he has also obtained credit for the full courses of Anat. and Physiol. (including practical work) at Cape Town he is given credit for 2 collegiate years. Courses in Path. and Bact. at Cape Town are also recognized, and further concessions granted in consideration of 2 full years of the Med. course in Cape Town.

A student who has passed the Interm. examn. of any Univ. in S. Africa is permitted to present himself at the Final Freshman examn., with exemption from those subjects in which he has already passed at the Interm. examn.

A student who has passed the B.A. examn. of any Univ. in S. Africa is allowed credit for the 1st two collegiate yrs. and for the Final Freshman examn.

To students admitted to advanced standing the entrance fee is remitted and in most cases some of the half-yearly fees.

In keeping terms students from S. Africa are allowed to substitute Dutch for French or German, when 2 languages are required. 6 exhibitions are

offered for medical students from S. Africa, value from £150 to £200 according to the number of years spent in Dublin (3–5). The Board and Council are prepared, in the case of students of Medicine, to consider applications from Colonial Univs. and Colls. for recognition of courses of instruction given by them.

No recognition granted under this scheme will exempt a student wishing to take the Dublin degree from spending at least three full years of Med. study in Trin. Coll.

The Univ. of Melbourne is entitled to nominate one of its Med. graduates to an exhibition of £100, with rooms rent free for 6 mos. in T.C.D., intended to defray, in part, the expenses incurred in obtaining the Diploma in Gynæc. and Obst.

FEES. Entrance, £15; Composition for all Arts Lectures, 20 gs. p.a.; Medical course total (including Hospitals and Degree fees), about £150; Dental Science total, about £200; Engineering, (3 yrs.) £40; Divinity free for students in Arts, 20 gs. p.a. for others.

SCHOLARSHIPS OPEN TO GRADUATES. 2 studentships of £100 p.a. tenable for 5 years offered at the B.A. degree examn.; prizes amounting to £450 awarded annually to candidates who deserve assistance for research or other purposes; a prize of £300 to the best unsuccessful candidate at the Fellowship examn. A number of other prizes, etc. (including the National Hist., nearly £400), are open to graduates under M.A. standing.

RESIDENCE. The College has accommodation for 320 students. Rent £6 to £30 p.a. (for rooms intended to accommodate 2 students); dinner in Hall, 14s. a week. Trinity Hall accommodates 40 women; board and residence, £15 to £21 per term of 10 weeks. There is also a Hostel for Divinity students of the Church of Ireland.

PUBLICATIONS. *Calendar*, Vol. I. (Nov.), 4s., includes information as to courses and *Pass* Arts examn. papers, results of examns., degrees conferred, etc.; Vol. II. (occasional), lists of past honours, benefactors, etc.; *Supplement* (Feb.), 4s., Honours and Professional Schools Examn. Papers, etc. *Book of T.C.D.*, 1591–1891, 21s. (Hodges, Figgis & Co., Dublin). *Hermathena* (occasional) original papers in Arts subjects. *T.C.D.* (Students'), 3d. weekly.

THE YEAR 1919–20

BENEFACTIONS. Lady Ardilaun, Earl Iveagh, and Sir J. Murray, £130 for books for French Departmental Library; for K. W. Jones memorial prize, £300 subscribed by his friends.

NEW POST. Addl. Lectr. in Italian and Spanish.

CHANGES IN REGULATIONS. Scholarships in Philos. founded. Italian introduced into Mod. Lit. Honour and Moderatorship courses; exemption of Honour students from pass lectures and examns. extended.

OTHER DEVELOPMENTS. Method of paying Fellows entirely remodelled by substituting nearly fixed salaries with regular periodical increases for remuneration derived mainly from tutorial fees; number of Fellows reduced and several Arts Lectureships established, permanent after 3 years, with fixed increasing salaries. Future Fellows will be mainly elected from these Lectrs. on ground of published work and lecturing capacity, together with the result of an examn.—a specialised one: the old Fellowship examn., with candidates competing in different subjects being abolished.

THE ROYAL COMMISSION, on the question of financial assistance from the State, issued its report in Jan. 1921. The Commissioners estimate that the additional annual cost of carrying into effect the recommendations they consider necessary will be £49,000, and that a further £113,000 will be required to provide for new buildings and equipment. They are thoroughly convinced of the urgency of the Univ.'s appeal for assistance, and most earnestly support it, and are unanimously of opinion that the sums named should immediately be granted.

HONORARY DEGREES CONFERRED. *D.D.*—Rt. Rev. F. H. Chase, Very Rev. W. P. Paterson. *LL.D.*—Viscount Bryce, Lt.-Gen. Sir E. S. Bulfin, Br.-Gen. F. W. B. Gray, Sir Donald Macalister, Wm. Crooke. *M.D.*—Sir A. E. Garrod. *D.Sc.*—Sir W. H. Bragg.

OTHER DEGREES. B.A.—199 (including 41 women); M.B.—53; B.A.I.—18; B.Sc.—1; LL.B.—13; M.A.—85; B.D.—6; D.D.—4, M.D.—24; M.Ch.—2; M.Dent.Sc.—1; M.A.I.—4.

NUMBER OF STUDENTS in Arts, 1370, including 322 graduates, on Jan. 1, 1921 (in 1918, 1919, 1920: 721, 877, 1274). In addition, about 70 students in Med. not included in above. Junior freshmen, 1920–21, 197. 2 graduates from U.S.A. came for research work.

INTERCHANGE of an English Lit. Lectr. for a French Lectr. effected with Univ. of Paris. RETIREMENTS. P. C. Buck, Prof. of Music; J. L. Synge, Lectr. in Maths., apptd. to post in McGill; W. I. Hayes, Ch. Lectr. in Anat.; G. A. Exham, Tutor Fellow; Eliz. Deane, apptd. to post in Liv. Univ.; Rt. Rev. J. G. F. Day, Prof. of Pastoral Theol., apptd. Bishop of Ossory. DECEASED. G. Wilkins, Prof. of Bibl Greek; F. A. Tarleton, Senr. Fellow.

THE NATIONAL UNIVERSITY OF IRELAND

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Rev. W. J. WALSH, D.D., Archbishop of Dublin.

VICE-CHANCELLOR — ALEXANDER ANDERSON, M.A., D Sc., LL D. President, Univ Coll., Galway—*until* Dec. 31, 1922.

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIV. COLLS., DUBLIN AND CORK, AND ST. PATRICK'S COLL , MAYNOOTH.

PARLIAMENTARY REPRESENTATIVE—J MACNEILL, B.A

REGISTRAR—Sir JOSEPH MCGRATH, LL.D.

CONSTITUENT COLLEGES. University Colleges, Dublin, Cork, and Galway.

RECOGNIZED COLLEGE. St. Patrick's College, Maynooth.

PROFESSORS AND LECTURERS

Prof. of Catholic Theology—Peter Finlay, S.J.

Staffs of the Univ Colleges v. *infra.*

Recognized Teachers in approved degree courses in St. Patrick's College, Maynooth (President — Very Rev. J. MacCaffrey, D.D.). *Classics*—J. F. D'Alton, M.A., D.D., D.Litt.; T. Fahy, M.A.; M. Sheehan, M.A., D.D., D.Ph. *Eastern Languages*—P. Boylan, M.A. *English*—C. Mulcahy; P. MacSweeney, M.A. *French and German*—J. L. Rigal, M.A. *Irish*—G. O'Nolan, M.A. *Maths. and Math. Physics*—P. J. Browne, M.A., D.Sc. *Maths. and Expl. Physics*—J. I. Donaghey, B.D., Ph.D. *Mental and Moral Philos.*—M. Forker, D.Ph.; P. Coffey, D.Ph.; J. O'Neill, D.Ph. *Music*—..... *Welsh*—P. Walsh, M.A.

GENERAL INFORMATION

Queen's University in Ireland, founded in 1850, was replaced in 1880 by the Royal University of Ireland, which was dissolved along with Queen's College, Belfast, on Oct. 31, 1909. On this date the National University of Ireland, Univ. College, Dublin, and Queen's University of Belfast came into being, and the Colleges previously known as Queen's at Cork and Galway became with the new College at Dublin constituents of the N.U.I.

FACULTIES. (1) Arts, (2) Philosophy and Sociology, (3) Celtic Studies, (4) Science, (5) Law, (6) Medicine, (7) Engineering and Architecture, (8) Commerce. Music is included in Arts and Celtic Studies. Classes are held in all Faculties at each of the constituent Colleges, and in 1, 2, 3, and 4 at Maynooth.

DEGREES: B.A., M.A., D.Litt., B.Mus., D.Mus., D.Litt.Celt.; B.Sc., B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc.; LL.B., LL.D.; M.B., B.Ch., B.A.O., M.Ch., M.A.O., M.D., B.Sc. and D.Sc. in Pub. Health, B.D.S., M.D.S.; B.E., B.Arch., M.E., M.Arch.; B.Comm., M.Comm.; Ph.D.

Course for a First degree in any faculty—9 terms in one of the Constituent Colls. or St. Patrick's.

The M.Sc., M.Agr.Sc., D.Sc., B.Sc., Pub. Health, M.E., M.Arch., Ph. D. may be conferred on graduates or other students for research under prescribed conditions in the Univ. or in a Constituent Coll. during at least 3 terms for a Master's degree or 6 terms for the Doctorate.

Diplomas are offered in the subjects of Faculties 1, 3, 8, and in several others; certificates in Commercial subjects. A Higher Diploma in Educn. may be obtained by a graduate of any Univ. of the U.K. or other approved Univ. after a course in one of the Constituent Colls.

FEES: Matricn., £2. Combined examn. and degree, £8 to £21. Diplomas £2 to £5.

STUDENTSHIPS, ETC., FOR GRADUATES. Four of £200 each, tenable for 2 yrs. outside Ireland (to which a prize for a further year of Irish Historical Research may be added), open to graduates of the Univ. of not more than 4 yrs. (one in Medicine, 2 yrs.) standing; one of £150 in Mental and Nervous Diseases; one of £32; prize of £100 for Irish Historical Research.

PUBLICATION. *Calendar* (Sept.), 2s.

THE YEAR 1919–20. Degrees conferred: B A.—198 (including women, 46); B.Sc.—28 (women, 10); M.B., B.Ch., B.A.O.—117 (women, 16); B.D.S.—6; B.E.—35; B.Comm —22 (women, 12); LL.B.—3; M.A.—21 (women, 6); B.Mus., B.Agr Sc., B.Arch., B.Sc. in P.H., M.Sc., M.E., M.D.—15. Diplomas: D.P.H.—16; Educn.—33 (2 women); Educn., Higher Dipl.—33 (women, 24). Honorary war degrees: M.Sc.—17; others—9. Honorary degrees: *D.Litt.* — P. S. Dinnean, Prof. G. Sigerson, R. I. Best. *LL.D.*—Father Thomas (Michael Dowling).

UNIVERSITY COLLEGE, DUBLIN

VISITOR—H.M. THE KING.
PRESIDENT—D J. COFFEY, M.A., M.B., B.Ch., B.A O., LL.D.
REGISTRAR—Prof. A. W. CONWAY, M.A., D Sc., F R S.
SECRETARY AND BURSAR—J. W. BACON, M A
LIBRARIAN—J. J. O'NEILL.

PROFESSORS AND LECTURERS OF THE UNIVERSITY

Accountancy
O'Connor, D. Lectr

Agriculture
Drew, J. P., A.R.C.Sc.I. Prof

Anatomy
M'Loughlin, E. P., B.A., M.B., B.Ch., B.A.O. Prof.

Archæology, Celtic [Prof
Macalister, R. A. S., M.A., Litt.D

Architecture
Scott, W. A., A.R.I.B.A. Prof.

Banking and Finance
Leet, F. L., LL.D. Lectr.

Botany
Butler, J. B., M.A., M.B., B.Ch., B.A.O. Prof.

Chemistry
Ryan, H., M.A., D.Sc. Prof.

Classics [Prof.
Browne, H., S.J., M.A. (Greek)
Semple, P., M.A. (Latin) Prof.

Commerce
Shields, B. F., M.A. Prof.

Dental Mechanics
Potter, J. I., L.D.S. Prof.

Dental Surgery [Prof.
Sheridan, E., L.D.S., F.R.C.S.I.

Economics, National, of Ireland
Oldham, C. H., B.A. Prof.

Education [Prof.
Corcoran, T., S.J., B.A., D.Litt.

Engineering, Civil
Purcell, P. F, M A., M.A.I. Prof.

English Lang and Philology
O'Neill, G, S J, M.A Prof.

English Literature
Donovan, R., B A Prof.

French and Romance Philol.
Chauviré, R., D. ès L. Prof.

Geology
Seymour, H. J., B.A., B Sc. Prof.

German
Macken, Mrs., M.A. Prof.

Histology v. Physiology

History [Prof.
O'Sullivan, J. M., M.A., Ph.D.

History, Early, including Mediæval Irish
MacNeill, J., B.A. Prof.

History, Modern Irish
Hayden, Mary T., M.A. Prof.

History, Municipal
Webb, J. J., M.A., LL.B. Dub. Corpn. Lectr.

Irish, Early and Mediæval
Bergin, O., B.A., Ph.D. Prof.

Irish Lang. and Lit., Modern
Hyde, D., LL.D., D.Litt. Prof.

Irish
O'Farrelly, Agnes, M.A. Lectr

Italian and Spanish
Degani, Maria A., Dipl. Univ. Padua Prof.

Law, Const., and Wrongs
MacNeill, J. G. Swift, M.A. Ox., K.C. Prof.

Law, Jurispr., and Internat. and Roman [Prof.
Murnaghan, J. A., M.A., LL.D.

Law of Property and of Contracts
Clery, A. E., B.A., LL.D. Prof.

Mathematics
M'Weeney, H. C., M.A. Prof.

Mathematics, Pure
Egan, M. F., S.J., M.A. Lectr.

Mathematical Physics
Conway, A. W., M.A., D.Sc., F.R.S. Prof.

Medicine and Surgery v. *infra*

Music
..... Prof.
O'Dwyer, R. (Irish M.) Dub. Corpn. Prof.

Oriental Languages
Boylan, P., M.A. Prof.

Philosophy
Cronin, M., M.A., D.D. (Ethics and Politics) Prof.
Shine, J., M.A (Logic and Psychology) Prof.
Magennis, W., M.A. (Metaphysics) Prof.

Physics, Experimental
..... Prof.
Dowling, J. J., M.A. Lectr.

Physiology and Histology
O'Connor, J. M., B.A., M.D. Prof.

Political Economy
Finlay, T. A., S.J., M.A. Prof.

Welsh
Jones, J. Ll., M.A., B.Litt. Prof.

Zoology
Sigerson, G., M.D., M.Ch. Prof.

Medicine

Hygiene and Med. Jurispr.
Meenan, J. N., M.B., B.Ch., B.A.O., D.P.H. Prof.

Mat. Med. and Therap.
Dempsey, M., B.A., M.D., F.R.C.P.I. Prof.

Medicine
O'Carroll, J. F., M.D., M.Ch., LL.D., F.R.C.P.I. Prof.

Midwifery and Gynæc.
Smith, A. J., M.B., M.Ch., M.A.O., F.R.C.S.I. Prof.

Ophthalmology
Werner, L., B.A., M.B., B.Ch., B.A.O., F.R.C.S.I. Prof.

Pathology and Bacteriology
M'Weeney, E. J., M.A., M.D., M.Ch., M.A.O., D.P.H., F.R.C.P.I. Prof.

Pathology, Special
Crofton, W. M., B.A., M.D. Lectr.

Surgery [Prof.
M'Ardle, J. S., M.Ch., F.R.C.S.I.

GENERAL INFORMATION (v. also p. 256)

The College was constituted by Royal Charter in 1909. The LIBRARY, 60,000 vols., includes the books of the late Catholic Univ. and R.U.I. and the Zimmer Celtic Library. MUSEUMS: Ancient History. LABORATORIES include those of the late R.U.I.

COURSES are provided for the degrees of the N.U.I. in all Faculties.

FEES for tuition, annual, in degree courses: Arts or Comm.—12 gs.; Science—£17 to £21; Engin.—£19 : 4s.; Law (in addition to Arts)—8 gs.; Med. (including Coll. Hospl.)—£165.

COLLEGE SCHOLARSHIPS, post-graduate in Arts or Science, 5 of £60.

RESIDENCE. Hostels for men and for women. Students are subject to supervision by Deans of residence.

PUBLICATION. *Calendar*, Sept., 2s.

THE YEAR 1919–20. *Number of students* preparing for Bachelor's degrees, 1181; Master's degrees or Higher Dipl. in Ed., 69; D.P.H., 19; other Diplomas, 60; occasional, 3; Total, 1332, of whom 61 were non-matriculates, 281 women. Full-time, 1268 (274 women). Students from King's Dominions overseas, 13. *Degrees conferred* on students of the College: B.A., 78; B Sc., 13; M.B., 72; LL.B., 5; B.D S., 5; B.E., 8; B.Comm., 10; B.Arch., 1; M.A., 16; M.Sc., 7; M.D., 2; Higher Dip. Ed., 21.

UNIVERSITY COLLEGE, CORK

VISITOR—H.M. THE KING.
PRESIDENT—P. J. MERRIMAN, M.A.
REGISTRAR—A. O'RAHILLY, M.A., B.Sc., Ph.D
BURSAR AND SECRETARY—J. DOWNEY.
LIBRARIAN—J FAWCETT, M.A.

PROFESSORS AND LECTURERS OF THE UNIVERSITY

Accounting
..... Lectr.

Agriculture
..... Lectr

Anatomy
Fitzgerald, D. P., B.A., M.B., B Ch., B A.O. Prof.
O'Connor, W F, M B, B.Ch., B.A.O. Asst & Demr.

Archæology
Power, P. Prof

Architecture
Hill, H. H., B.A. Lectr.

Biology [Asst. & Demr.
Quinlan, Christina, M.Sc.

Botany [Prof.
Cummins, Maj H. A., M.D, C.M G.

Chemistry
Dixon, A. E., M.D Dub Prof.
Taylor, John, D Sc. Asst. & Demr.

Classics
Treston, H. J., M.A. Prof.
Porter, W. H., M.A. Dub. Lectr.

Dental Materia Med.
Cantillon, E. V., M.B, B.Ch., B.A.O. Asst. & Demr.

Dental Mechanics
Sheedy, G., L.D.S. Lectr.

Dental Surgery
Hackett, J. R., M.B., B.Ch., B.A.O., L.D.S. Lectr.

Economics and Commerce
Smiddy, T., M.A. Prof.

Education, Methods of
O'Sullivan, Eliz. M., M.A. Prof.

Education, History of
M'Sweeney, E. P. Lectr.

Electrical Technology
Belas, P. E, B A, M.Sc. Lectr.

Engineering, Civil
..... Prof.
Walsh, H. N., M.E. Asst. & Demr.

English [Prof.
Stockley, W. F. P., M.A. Dub.

French [Asst. & Demr.
O'Driscoll, Eliz., M.A.

Geology and Geography
Swain, I., B.A. Prof.

German
..... Prof.

History
Hogan, J, B.A. Prof.

Irish Lang. and Lit
O'Donoghue, T. Prof.
O'Donoghue, E. Lectr.

Law
Dunlea, W. J., LL.D. (Contracts, etc.) Prof.
Moloney, H. J., B.L (Real Property) Prof.

Mathematics
Conran, M. J., M.A. Prof.

Mathematical Physics [Prof.
O'Rahilly, A., M.A., B.Sc., Ph.D.

Medicine and Surgery v. *infra*

Music
Lacy, F. St. J., F.R.A.M. Prof.

Philosophy [Prof.
Fitzgibbon, T. E., B.A., Ph.D.

Stokes, G. J., M.A. Dub. (P. and Jurispr.) Prof.
O'Sullivan, J., Ph.D. Asst. & Demr.
Physics, v. also Maths.
Bergin, W., M.A. Dub. Prof.
Physiology
Barry, D. T., M.D., D.Sc., D.P.H., F.R.C.S Prof
O'Donovan, J. M., M.Sc., M.B Asst. & Demr.
Romance Languages, v. also French
Ryan, Mary, M A. Prof.
Spanish
Cooke, W. C. Lectr.
Veterinary Hygiene
..... Lectr.
Zoology and Embryology
Hartog, M., M.A. Camb., D.Sc. Lond. and N.U.I. Prof.

Medicine

Hygiene [Prof.
Donovan, D D , L.R C.P. and S E.
Materia Med.
Dundon, J., M.B., F.R.C.S., B.Ch. B.A.O., F.R.C.S. Prof
Medical Jurisprudence
O'Sullivan, P. T., M.D., B.Ch. B.A O. Prof
Medicine [Prof
Cummins, W. E. A , M.D., M Ch
Mental Diseases
Fitzgerald, J. J., M.B., B.Ch. B.A.O. Lectr
Midwifery
Corby, H., B A., M.D., M.Ch. Prof
Ophth. and Otology
Sandford, A. W., M.D., M.Ch Dub. Prof
Pathology [Prof
Moore, A. E., M.B., B.Ch , B A.O
Magner, W., M.B Asst. & Demr
Surgery
Pearson, C Y , M.D., M Ch F.R.C S. Prof
Pearson, C. B , M.B , B.Sc. Asst. & Demr

GENERAL INFORMATION (v. also p. 256)

Queen's College, Cork, founded in 1845, became a constituent College of the N.U.I. in 1908.

LIBRARY: 60,000 vols., including the d'Arbois Jubainville collection of Celtic works. MUSEUMS: Archæol., Ethnol., Geol., Mineral., Nat. Hist , Med.

LABORATORIES. Biol., Chem., Engin. (Testing—200,000 lb. machine— and Hydraulics), Geol., Physics, Medical School. BOTANICAL GARDENS OBSERVATORY with 8″ equatorial and 11″ photo. telescopes, seismograph, and 4″ siderostat.

Complete COURSES provided for all degrees and diplomas of the Univ., except 2 years in the B.Sc.Agric. course. Students are also prepared for the examns. of the Univ. of London.

Commerce students can do 6 mos. practical work in railway or accountants' offices, etc. Courses in Engin. (Mech., Elec., Chem., Workshop Practice, Design, and Drawing) at the Municipal Tech. Sch. qualify for the B.E. degree.

FEES for tuition, including College fee, from £6 : 15s. to £28 : 10s. per session

RESIDENCE. Hostel for men (charitable trust, R.C. only); students are supervised by Deans of Residence.

PUBLICATION. *Calendar* (Sept.), 1s.

THE YEAR 1919–20. *Number of students* (1916–17 to 1919–20): men—342, 450, 492, 499; women—96, 116, 137, 161. *Retirements*: Sir B. Windle, President, apptd. Prof. in Toronto; Mrs. Lindsay, Prof., German; A. J. Magennis, Lectr., Acctg. *Deaths*: E. W. Hoare, Lectr., Vet. Hygiene; C. W. L. Alexander, Prof., Civ. Eng.

UNIVERSITY COLLEGE, GALWAY

PRESIDENT—ALEXANDER ANDERSON, M.A , D.Sc , LL.D.
REGISTRAR AND SECRETARY—Rev. J. HYNES, B.D.

PROFESSORS AND LECTURERS OF THE UNIVERSITY

Anatomy
..... Prof.

Archæology, Celtic
Hynes, J., B.D. Lectr.

Chemistry
Dillon, T., M.A., D.Sc. Prof.

Classics, Ancient
M'Elderry, R. K., M.A. Prof.

Economics, Commerce, & Acctcy.
M'Bryan, F , M A. Prof.

Education
O'Kelly, T., B.A., B.D. Prof.

Engineering, Civil
Rishworth, F. S., B E., B.A., A.M.I.C.E. Prof.

Engineering, Electrical
Griffith, W. G., B.Sc., A.M.I.E.E., M.I.C.E.I. Prof.

English Language and Lit.
Byrne, W. A., B.A. Lond. Prof.

Geology and Mineralogy
Mitchell, J , B.Sc , B E. Prof.

German
Cooke, Miss M. M., M.A. Prof.

History (Special Reference to Irish H.) [Prof.
Donovan O'Sullivan, Mrs., M.A.

Irish Lang., Philol., and Lit.
O'Maille, T., M.A., Ph.D. Prof.

Irish, Modern
Prof. MacEnri, S. P. Lectr.

Law and Jurisprudence
Sheehy, R. J., LL.B. Prof.

Mathematics
Power, M., M.A , B.Sc. Prof.

Medicine and Surgery [Prof.
Colahan, N. W., M.D., M.Ch. (Fevers, Materia M., etc.)
Mahon, R. B., M.D., M.Ch., F.R.C.S. (Practice of M.) Prof.
English, Adeline, M.B., B.Ch., B.A.O. (Mental Diseases) Lectr.
Kinkead, R. J., B.A., M.D. (Obst. and Gynæc.) Prof.
MacEnri, S. P., M.A., M.D., B.Ch. (Ophth. and Ot.) Prof.
Walsh, T., B.A., B.Sc., M.D., D.P.H. Prof. of Path. and Lectr. in M. Jurispr. & Hyg.
Brereton, W. W., L.R.C.S.I., M.R.C.P.I. (Practice of S.) Prof.

Natural History [Prof.
Mangan, J., M.A., F.R.C.Sc.I.

Natural Philosophy
The President Prof.

Philosophy
Howley, J. F. W., M.A. Prof.

Physiology
Donegan, J. F., M B., B.Sc. Prof.

Romance Languages
O'Brien, W., M.A. Prof.

GENERAL INFORMATION (v. also p. 256)

Queen's College, Galway, opened in 1849, became a constituent College of the N.U.I. in 1908.

LIBRARY: 50,000 vols. LABORATORIES: Physics, Chem., Biol., Physiol., Path., Geol., Engin. MUSEUMS: Nat. Hist., Mat. Med., Gynæc., Anat. Dept.

DEGREE COURSES in Arts, Celtic, Science, Law, Med., Engin., Commerce. Courses for Diploma in Educn.

Med. degree students are required to spend 1 yr. at a Metropolitan Hospl. after a 4 yrs. course in the College.

FEES. College, £2 (women, £1). Degree courses (approximately): Arts, £22; Science, £30; Law, £12; Medicine (including 2 years General Hospital fees), £77 : 10s.; Engineering, £46; Commerce, £26. Post-graduate or research course, £5.

SCHOLARSHIPS open to students of the Coll. on graduation: 4 of £40.

RESIDENCE. The cost of board and lodging for a student varies from 26s. to 35s. a week. Every student is required to register under a Dean of Residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a Lady Supt., who exercises supervision over their conduct within the precincts of the College.

PUBLICATIONS. College *Handbook* and list of licensed lodging-houses, free; *Calendar* (post-free, 1s. 3½d.); Regns. for Degrees and Courses (3½d.); Regns. for Scholps. and Diploma in Educn. (3d.), from O'Gorman and Co., Galway; Univ. Examn. Papers (post free, 1s. 8d.), from Supervisor of Examns., Univ. Coll.

THE YEAR 1919–20. Grant of £1500 received from County Councils of Connaught. College Restaurant, equipped at a cost of £300, was opened. *Number of students*: in Arts, 50; Science, 35; Law, 3; Med., 125; Engin., 42; Commerce, 21. Total full-time students preparing for first degree, 250, including 64 women; taking post-grad. courses for higher degrees, 8 full-time, 1 part-time; diploma students, full-time 3, part-time 3; occasional, 6. Grand total, 271 (in 1917–18 and 1918–19. 265, 286). *Degrees obtained*: B.A., 6; B.Sc., 1; LL.B., 1; M.B., B.Ch., B.A.O., 7; B.E., 11; B.Comm., 1; M.A., 1; M.E., 1. *Death*: Prof. J. P. Pye (Anat.). *Retirements*. Profs. H. B. Cronshaw (Geol.) and Emily Anderson (German).

ROYAL COLLEGE OF SCIENCE FOR IRELAND, DUBLIN

DEAN—H. H. JEFFCOTT, B.A.I., M.I.M.E.
REGISTRAR—P. A. E. DOWLING, B.A.

PROFESSORS, LECTURERS, ETC.

[Associates of the College marked *]

Agriculture, v. also For., Hort., Vet.
Wilson, J., M.A., B.Sc. Prof.

Agric. Biology
..... Lectr.

Agric. Chemistry
Stephenson, G. Lectr.

Agric. Econs., Bookkeeping, etc.
*Cole, R. D. Lectr.

Bacteriology
Denham, C. H., B.A., M.B. Lectr.

Botany
Johnson, T., D.Sc., F.L.S., M.R.I.A. Prof.
*O'Connor, P. Demr.

Chemistry [Acting Prof.
*Adeney, W. E., D.Sc., F.I.C.

Chemistry, Organic
O'Farrelly, A , M.A., F.I.C. Lectr.

Chem., Phys. and Metall. [Lectr.
*Leonard, A. G. G., B.Sc., Ph.D.

Engineering
The Dean Prof.
*Taylor, J., M.A. Lectr.
*Warwick, F. W., B.A., B.E. Demr.

English and Education
Williams, W. J., M.A. Lectr.

Forestry [Prof.
Henry, A., M.A., F.L.S., M.R.I.A.

Geology [Prof.
Cole, G. A. J., F.R.S., M.R.I.A.
*Wright, M. C. Demr.

Horticulture
*Sherrard, G. O Lectr.

Mathematics [Prof.
Orr, W. McF., M.A., D.Sc., F.R.S.
Johnston, J. P., M.A., Sc.D. Lectr.

Physics
Brown, W., B.Sc., M.I.E.E., M.R.I.A. Prof.
Hackett, F. E. W., M.A., M.Sc., Ph.D. Lectr.
*Allen, R. G., B.Sc., A.M.I.E.E. Demr.
*O'Callaghan, P. Demr.

Veterinary Hygiene
Mason, F. C., M.R.C.V.S. Lectr.

Zoology [Prof.
Carpenter, G. H., D.Sc., M.R.I.A.
*Dawson, B. B. S. Demr.

GENERAL INFORMATION

The College is housed in new buildings, and the LABORATORIES are fitted throughout with all modern appliances. Facilities for technical research in all branches of Chemistry, *e.g.* extraction of metals, production of metallic alloys, glazes, enamel, glass, pigments, paints, coal-tar derivatives, peat products, synthetic drugs. Engineering Pattern Shop, Foundry, Smithy,

Machine Shop ; examples of types of engines aggregating 600 H.P. Hydraulics and Hydraulic Machinery Labs. Testing Machines recording up to 100 tons. Elect. Engin. Labs. with D.C. and A.C. machines. Extensive Physics, Agric., and Nat.Sc. equipment. LIBRARY with 30,000 Scientific and Tech. books, 10,000 pamphlets, numerous maps, etc.

The Regular COURSES extend over 4 yrs. leading to the *Associateship* of the College in Agric. (4 groups), Applied Chem., Engin., Science Teachers courses (Tech., Expl. Sc., Nat. Sc., Rural Sc.).

The *Fellowship* of the College may be awarded to any Associate of at least 3 yrs. standing who (1) submits a satisfactory thesis embodying results of original scientific research or investigation or treating critically some branch of Science, or (2) has contributed in a marked degree to the advancement of Science.

Several valuable *Scholarships* are attached to the College, and a number of *Research Studentships* are available.

Short *Summer Courses* are held in the College in Science subjects by the Dept. of Agric. and Tech. Instruction for Ireland.

THE YEAR 1919–20. *Number of students*, 431 ; additional attending special courses, 26 ; summer course, 204. *Number of Diplomas* granted : Fellowship, 2 ; Assoc., 25.

CANADIAN UNIVERSITIES

I. General Description

[Contributed by A. Stanley Mackenzie, Ph.D., D.C L., President of Dalhousie Univ., President for 1920 of the Conference of Canadian Univs]

It is probably not true to say that Canada has evolved a distinctive type of Univ., and yet Canadian higher institutions of learning differ in many ways from the corresponding institutions in the British Isles and in the United States One might divide Canadian Univs. into groups, determined by the prototype after which each was consciously or unconsciously modelled. In the first group are those which followed closely the Oxford tradition — King's, New Brunswick, Bishop's, Toronto, and some of its federated colleges (University, Trinity, Wycliffe). The Univs. in the second group are those which modelled themselves on Edinburgh, viz. Dalhousie, McGill, Queen's. Laval in Quebec, Laval in Montreal (which has lately changed its name to that of the Univ. of Montreal), and Ottawa have followed closely the forms and tradition of France. The four western provincial Univs. of Manitoba, Saskatchewan, Alberta, and British Columbia, and especially the three last, bear a close resemblance to the State Univs. of the United States. The Univs which have not been named are perhaps more free from direct imitation of older types

As the years have gone by all these institutions, while maintaining individuality and evidences of their original form, have tended to uniformity in many important regards. For instance, they all require four years for the Bachelor degree in Arts or in Science. Again, they have a common standard of preliminary education for admission to the course leading to these degrees. This standard is that attained by a pupil who has completed three years of a High School course superimposed on eight years in the common schools. This standard is called Junior matriculation. If a pupil has successfully completed the fourth year of the High School course in the proper subjects, or passes the equivalent Senior matriculation examination, he can enter the second year and complete the course for the degree in three years. This practically amounts to saying that High Schools or Collegiate Institutes which have a fourth year course give in that year about the same work as is done in the first year of the Univ. course.

Junior Matriculation. Students can satisfy the Entrance requirements of the Univs. either by examination or on certificate from a standard High School or accredited Preparatory School or Collegiate Institute or School. Such certificate is, however, not accepted as such, but considered subject by subject; that is, it must show a Pass in the Required Subjects of matriculation. These required subjects differ

somewhat from one Univ. to another. Practically all Univs. require for candidates for the B.A. degree the following six subjects: (1) English, (2) History, (3) Algebra (through quadratics), (4) Geometry (at least four books), (5) Latin, (6) a second foreign language. There is in nearly every Univ. a seventh subject; it is usually a science (in some cases specified, in others elective), but in many cases a third foreign language is accepted instead.

Where a course in Pure Science is given leading to the degree of B.Sc. the requirements are as above, except that the two foreign languages are French and German.

There is much more variation in the requirements for entrance to the courses in Applied Science, or Engineering; but the best schools of Applied Science require in addition to the requirements (1) and (2) of Arts, Advanced Algebra, Advanced Geometry, Trigonometry, Physics, Chemistry, and at least one foreign language.

The requirements for entry upon the study of Medicine are generally the same as those for Arts. The same is true for Dentistry except that no second foreign language is required.

The requirements for entry upon the study of Law are the same as those for Arts, except in the case of Osgoode Hall (affiliated with the Univ. of Toronto), where Senior matriculation is required, and of Dalhousie, where a year of Arts in a Univ. is required. *See also* under Toronto.

CURRICULUM. Speaking very generally, one can say that about one-half of the course for the degree of B.A. is prescribed and the other half elective; but these elective subjects are commonly to be distributed among certain broad groups of allied subjects in a specified way, varying with the individual Univs. The prescribed work includes English, History, two foreign languages, one of which is usually Latin (British Columbia requires only one), Philosophy, Mathematics, and Science. In the case of the B.Sc. degree in Pure Science the two foreign languages required are French and German.

A feature of Canadian Univs. which distinguishes them from the typical Univs. of the United States is the provision made for the ambitious student and the student who wishes to specialize during his course for the B A. degree. This is accomplished by the provision of the system of Honour courses. In this system a student who shows the necessary aptitude is permitted to take special classes, which in some instances are in extension of the regular classes, and in other cases are restricted to Honour students. In some Univs. the Honour classes are confined to the third and fourth years of the course; in others, as in the case of Toronto, they are given in all four years, and there is also a special Honour matriculation. In general, also, the number of prescribed classes is reduced, so that the student not only goes more deeply into each subject, but specializes to a greater extent than the Pass man is allowed to do. On the completion of an Honour course the student receives a degree With Honours. No small measure of the academic success of Canadian students in post-graduate work in home and foreign Univs. is to be attributed to this system.

LENGTH OF SESSION. The Canadian Univs. open about October 1, and close in May or early in June. The average length of the session is 32½ weeks for all faculties, except those of Medicine and Dentistry, which are 4 weeks longer. Of the 32½ weeks, 26 are given up to actual lecturing, and the remainder to vacations, examinations, and closing exercises.

LENGTH OF COURSE FOR A DEGREE. For a degree in Arts, Pure Science, Applied Science, or Dentistry, the course extends over four years. For Medicine it was five years until the present time; it has now been extended to six. The course in Law proper extends over three years only; Dalhousie, however, requires a preliminary year in Arts and will soon extend this to two years.

By a proper combination of studies a student can complete a combined course for the degrees in Arts and a professional faculty in a year less than the sum of the years required for each.

II. CONFERENCE

The 7th Conference of Canadian Univs. was held at Laval Univ., May 17 and 18, 1920, when reports were presented on Graduate Work in Agric., Correspondence with British and French Univs. regarding Higher Degrees, Medical Educn., and Legal Educn. Among other matters discussed were Aid for Soldier Students, Joint Matricn. Boards, Exemption from Income Tax of Gifts to Univs., and Military Training in Univs. A paper was read on the subject of Forestry. Standing Committees for 1920–21: On Matricn., Med., Legal, and Engin. Educn., Educn. of Soldiers, Educn. for Foreign Trade and Service, Graduate Work in Canada, Graduate Work in Agric., Univ. Co-operation in Scientific and Indust. Research; to correspond with British and French Univs. Officers for 1921: President, Dr. H. M. Tory, Pres. of Alberta; Vice-Pres., Dr. C. C. Jones, Chancellor of N.B.; Secy.-Treasr., Dr. J. Sirois of Laval, 21 Couillard St., Quebec; other members of Exec. Committee, Dr. F. Adams of McGill and Dr. R. Bruce Taylor of Queen's.

III. DEGREES IN DIVINITY FOR STUDENTS BELONGING TO THE ANGLICAN CHURCH IN CANADA

The Church Universities and Theological Colleges in Canada having entered into an agreement to adopt a uniform standard for degrees in Divinity, all such degrees are now only conferred in accordance with Canon X of the General Synod of Canada, and only on examn. by a Joint Board, including the Archbishop of Rupert's Land (Chairman), and representatives of the Univs. of King's, Bishop's, and Trinity Colleges, Montreal Diocesan, Wycliffe (Toronto), Huron (London, Ont.), St. John's (Winnipeg), Emmanuel (Saskatoon), St. Chad's (Regina), Anglican Theol. Coll. of B.C. with its associated Halls—St. Mark's and Latimer—one from each Hall.

In the case of a College within the "Province of Canada" (a group of dioceses in Eastern Canada) which has not the power to confer degrees the Metropolitan, or a representative of the College acting for him, grants the degrees. The Canon provides for similar powers being conferred on the Primate for the granting of degrees throughout the jurisdiction of the General Synod. [*Contributed by the Bishop of Ottawa.*]

IV. Nova Scotia Technical College, Halifax

This institution represents the principal effort of the province in University training. It is supported entirely from provincial revenues. Through a co-operative agreement, a uniform matriculation and a uniform engineering course covering the general work of the freshman and sophomore years is carried out entirely in the Univs. of Acadia, Dalhousie, King's, Mount Allison, St. Francis Xavier, and St. Mary's College. On successful completion of this course, the student proceeds to the Technical College for the professional work of the last 2 of the 4 yrs. course. Here the studies are differentiated and the student elects either Civ., Elec., Mech., or Mining Engineering. The degree given is that of B.Sc. The Technical Coll. confines its attention entirely to the work of the jun. and sen. yrs. It is equipped principally for teaching the engineering courses and commercial testing of industrial materials, and not for scientific research. The buildings and equipment represent a provincial investment of about $500,000. [*Contributed by the Department of Technical Educn.*, N.S.]

V. The Carnegie Foundation for the Advancement of Teaching, 576 Fifth Avenue, New York City

The object of the Foundation is to provide retiring allowances and pensions, and, " in general, to do and perform all things necessary to encourage, uphold, and dignify the profession of the teacher and the cause of higher education." Its 14th Annual Report, dated Oct. 1919, stated that the following classes of persons are eligible for retiring allowances: (1) A person in an institution on the associated list who (*a*) is 65 years of age and has served not less than 15 years as professor, or not less than 25 years as instructor or as prof. and instr., or (*b*) has served 25 years as prof. or 30 years as instr. or as prof. and instr., and who is shown by medical examn. to be entirely unfitted by disability for continuing the work of teacher; (2) a widow who has for 10 years been the wife of any teacher of class (*a*) or (*b*).

The list of associated institutions includes Dalhousie, McGill, Queen's, and Toronto. Up to June 1919, 811 allowances had been granted, including 37 in Canada and 3 in Newfoundland.

In addition to its work in connexion with the payment of pensions the Board of Trustees has undertaken the issue of various publications and their free distribution. The Annual Reports include discussions of various questions connected with teaching institutions. Separate bulletins have been published on Financial Reports of Colleges, Univs., and Tech. Schools; Medical, Engineering, Legal, and other vocational education; the Training of Teachers; and Teachers' Pensions.

ACADIA UNIVERSITY, WOLFVILLE, NOVA SCOTIA

PRESIDENT—G B CUTTEN, Ph D., D D., LL.D.

CHAIRMAN OF THE BOARD OF GOVERNORS—J. W. MANNING, D D.

REGISTRAR—Prof A. B BALCOM, B.Sc., M.A.

BURSAR—A. COHOON, B A., D D

LIBRARIAN—MARY K. INGRAHAM, M.A.

PROFESSORS, LECTURERS, ETC.

Biology [C F. Myers Prof.
Perry, H. G., M.A.

Chemistry
Hill, D. U., M A., Ph.D. Prof.

Classics
Thompson, W. H., jun., M.A., Ph.D. Barss Prof.

Economic Science
Balcom, A. B., B.Sc , M.A. Prof.

Education
McPhee, E. D , M.A., B Ed Instr.
Wood, C. L.
Instr. in Manual Training

Engineering [I. Curry Prof.
Wheelock, F. E., M.A., Ph.D.
Sutherland, A., B Sc. Prof

English Lang. and Lit. [Prof.
Rhodenizer, V. B., M.A., Ph.D.

Geology
..... Prof

German
Ross, Roy, M.A. Prof.

History [M. Curry Prof
Tufts, J. F., M.A., D.C.L.

Law [Lectr.
Illsley, J. L., K.C., B.A., LL.B.

Library Science [Instr.
Ingraham, Mary Kinley, M.A.

Mathematics [White Prof.
Coit, W. A., M.A., Ph.D.

New Test. Lang. and Lit.
De Wolfe, H. T , B.A., D.D. Prof.

Old Test. Lang. and Lit.
Chute, A. C., B.A., D.D.
G. P. Payzant Prof.

Oratory
Deane, Mae C. Instr.

Physics
Haley, F. R., M.A. Alumni Prof.

Psychology and Philos
The President Prof.

Romance Languages
Cavicchia, G., B.A. Prof.

Theology and Church Hist.
Spidle, S., B.D., Ph.D.
G. P. Payzant Prof.

GENERAL INFORMATION

Founded in 1838 by the N.S. Baptist Educational Society, Acadia College was incorporated in 1840 by Act of the N.S. Legislature, with the powers of a University. In 1896 an endowment of $100,000 for the Theol. Dept. was received under the will of G. P. Payzant. The Board of Governors is appointed by the Baptist Convention of the Maritime Provinces, but the students are subject to no religious tests.

LIBRARY: 45,000 vols. MUSEUMS: Biol., Ethnol., Geol., Hist. LABORATORIES: Biol., Chem., Geol., Physics, Engineering. OBSERVATORY: Meteor. and Astron.

DEPARTMENTS. Arts and Sciences, Theology, Applied Science, Music.

DEGREE COURSES. 4 yrs.—B.A., B.Sc.; 3 yrs.—B.Mus., and for ordained ministers or licentiates of some Christian Church who have completed the first 2 yrs. of the Arts course, B.Th.; 1 yr. (for resident graduates)—M.A. Combined B.A. and B.Th.—6 yrs. The B.Sc. Engineering courses enable graduates to enter the 3rd year classes of McGill Univ. and N.S. Tech. Coll Some of the B.A. and B.Sc. courses enable graduates to enter the 2nd yr. of the Dalhousie Law School, Halifax, and the Med. Dept. of McGill Univ respectively (v. pp. 285, 298, 323).

OTHER COURSES. "English" Theol. (2 yrs.); Applied Sc. (2 yrs.), covering same ground as Unified course at McGill and the N S Tech. Coll., and giving admission to the 3rd yr. courses therein (v. p. 270).

FEES for tuition: in Arts and Sc., $306; in Theol *nil*; in Appl. Sc. (2 yrs.), $220. Lab. fees extra, about $30.

RESIDENCE. College hostels provide accommodation for 70 men and 65 women.

AFFILIATION, v. pp. 168, 298.

PUBLICATIONS. *Bulletin*, 25 cents p a.; *Calendar*, number issued in July.

THE YEAR 1919–20

BENEFACTIONS. Carnegie Corporation, $75,000 for Pension Fund; H. H. Raymond of New York, $25,000 for Athletic field; contributions for Gymnasium, $100,000.

NEW BUILDING. War Memorial Gymnasium.

NUMBER OF STUDENTS, 1918–19 and 1919–20. Preparing for B.A.—142, 172 (including 90 women); B.Th.—3, 6; B.Sc.—0, 26; Appl. Sc.—23, 85; Special—0, 31. Total, 1919–20—320.

HONORARY DEGREES CONFERRED. LL.D.—Genl Sir A. W. Currie; D.C.L.—Lt.-Col. J. L. Ralston; D.D.—S. R. McCurdy; M A.—J. T. W. Rowe, A. P. Rogers, R. B. Wallace, Mrs. Dennis, Mrs. Manning, Mrs. Mary Smith.

OTHER DEGREES. B.A., 32; B.Sc., 2

UNIVERSITY OF ALBERTA

VISITOR—THE LIEUTENANT-GOVERNOR OF THE PROVINCE.
CHANCELLOR—Hon. CHARLES ALLAN STUART, B.A., LL D. Tor.
PRESIDENT—HENRY MARSHALL TORY, M.A , D.Sc., LL.D. McG.
REGISTRAR AND TREASURER—C E. RACE, B.A. Tor., C.A.
LIBRARIAN—F. G. BOWERS, M.A. Ox.

PROFESSORS, LECTURERS, ETC.

Accountancy, v. also Maths.
Race, C. E , B.A. Tor , C.A Lectr
4 Evening Lectrs.

Agriculture, v. also Vet.
Howes, E. A., B S A Tor.
Dean of Faculty.
Dowell, A. A., B.S.A. Ames.
Prof. of Animal Husby.
Lattimer, J. E., B.S.A. Tor.
Asst. Prof. of Animal Husby.
Cutler, G. H., B.S.A. Tor.
Prof. of Field Husbandry.
Newton, R., B.S.A. McG.
Asst. Prof. of Field Husby.
Fryer, J. R., M.A. Tor
Asst. Prof. of Field Husby.
Harcourt, G., B.S.A. Tor. (Hortic.)
Lectr.
Wyatt, F. A., M.S., Ph.D. Ill.
(Soils) Prof.

Anatomy. [Prof.
Revell, D. G., B.A., M.B. Tor.
Collins, E. N., B.Sc. Asst. Prof.
McPherson, J. A., M.B. Tor. Demr.
Adamson, J. F., M.D. Tor. Demr.
Folinsbee, J. F., M.R.C.S. Eng..
L.R.C.P. Lond. Demr.

Architecture
Burgess, C. S., A.R.I.B.A. Prof.

Bacteriology v. Med.

Bio-Chemistry v. Physiol.

Biology [Prof.
Lewis, F. J., D.Sc. Liv., F.L.S.

Botany
Tuttle, Gwynethe M., M.Sc. Lectr.

Chemistry
Lehmann, A. L. F., B.S.A. Tor.,
Ph.D. Leip. Prof.
Cowper, A. D., B.Sc. Lond., M.Sc.
Asst. Prof.
Seyer, W. F , Ph.D McG., M.Sc.
Lectr.
Sandin, R. B , M.A. Asst.
Stover, N. M., B.Sc Asst.

Classics
Alexander, W. H., M.A. Tor.,
Ph.D. Calif Prof.
Misener, Geneva, M A. Qu., Ph.D.
Chic. (Latin) Assoc. Prof.
Carruthers, C., M.A. Tor., B.A. Ox.
Lectr.

Dentistry
Fuller, L. L., D.D.S. Phila.
Instr. (Prosth.D.)
Bulyea, H E., D.M.D. Harv.
Instr. (Op. D.)

Drawing & Descr. Geom.
Adam, J., M.A. Assoc. Prof.

Engineering, Civil & Municipal
Wilson, R. S. L., B.Sc. McG. Prof.
Morrison, I. F., S.B. Mass. Inst.
Tech. (Civil E.) Assoc. Prof.
Fife, W. M., B.Sc. (Civ. E.) Lectr.

Economics
MacGibbon, D. A., M.A. McM.,
Ph.D. Chic. Prof.

Engineering, Electrical [Lectr.
MacLeod, H. J., B.Sc. McG., M.Sc.

Engineering, Mechanical
Robb, C. A., B.Sc. McG., M.S. Mass. Inst. Tech. Assoc. Prof.

English
Broadus, E. K., M.A. Chic., Ph.D. Harv. Prof. of E. Lang. & Lit.
Gordon, R. K., B.A. Ox., M.A., Ph.D. Tor. Assoc. Prof.
Wallace, P., B.A. Tor. Lectr.

French and Ger. v. Mod. Langs.

Geology
Allan, J. A., M.Sc. McG., Ph D. Mass. Inst. Tech. Prof
Stewart, Grace A., M.A. Asst.

History
Burt, A. L., B.A. Tor., M.A. Ox. Assoc. Prof. of Hist.
Long, M. H., B.A. Ox. Asst. Prof.

Household Economics
Patrick, Mabel, B.A. Tor. Lectr.
Borden, Gladys, B.A. Mt. All., B.S. Col. Instr.

Law
At Edmonton:
Scott, W. S., B.A., LL.D. Lectr.
6 other Sessional Lectrs.

At Calgary:
Power, W. K., B.A., LL.B. Lectr.
12 other Sessional Lectrs.

Mathematics
Sheldon, E. W., M.A. McG., Ph.D. Yale Prof.
Killam, S. D., M.A. Mt. All., Ph.D. Gött. (Applied M.) Assoc. Prof.
Campbell, J. W., M.A. Qu., Ph.D. Chic. Asst. Prof.
Race, C. E., B.A. Tor., C.A. (M. and Accountancy) Lectr.

Mining Engineering,
Pitcher, N. C., M.Sc. McG. Prof.
Cameron, A. E., M.Sc. McG. Asst. Prof.

Modern Languages
Kerr, W. A. R., M.A. Tor., Ph.D. Harv. Prof.
Coar, J. F., M.A., Ph.D. Harv. (German) Prof.
Bickersteth, J. B., M.A. Ox. (French) Asst. Prof.
Sonet, E., B. ès L Lyons (French) Asst. Prof.
Owen, F., M.A. Tor. Lectr.
Pelluet, A. P. (French) Lectr.

Philosophy
MacEachran, J. M., M.A. Qu., Ph.D Leip. Prof.
Berry, W., M.A. Lectr.

Physics [Prof.
Boyle, R. W., M.A., Ph.D. McG.
Smith, S., M.A., B Sc. Ox. Asst. Prof.
Lang, R. J, B.A. McM., M A. Tor. Lectr.

Physiology and Bio-Chemistry
Downs, A. W., M.A., M D., D.Sc. Prof.
Collip, J. B., M.A., Ph.D. Tor. Assoc. Prof.
Backus, P. L., M.D., C M McG. Lectr. in P.
Bell, I. R., B.A., M.B. Tor. Demr.

Veterinary Science
Talbot, P. R., V.S Tor, M.D.V. Chic. Specl. Lectr.

Medicine

Bacteriology
Rankin, A. C., C.M.G., M.D., C.M., D.P.H. McG., L.R.C.P., M.R.C.S. Prof.

Medicine, Clinical
Jamieson, H. C., M.B. Tor. Lectr.

Pathology
Ower, J. J., B.A., M.D., C.M. McG., Prof., and Provincial Serologist.

Pharm. and Mat. Med. [Prof.
Gaetz, H. H., Director of School,
Dunn, F. A. S. Lectr.

Surgery
Gray, G. C , M.B. Tor. Lectr.
Wilson, W. A., M.D., C.M. McG. Instr.

PHYSICAL EDUCATION
MacRae, D. A. Dir.

Fabb, Christine L. Assistant Director.

CORRESPONDENCE COURSES
MacKenzie, D. S. Director.
3 Instrs.

AFFILIATED COLLEGES

(1) ALBERTA THEOLOGICAL COLLEGE (Methodist), Edmonton. Chairman of Board of Governors, H. B. Smith, M.D.; Secy., C. E. Race, B.A., C.A. Principal—A. S. Tuttle, M.A., D.D. Mt. All., Prof. of Syst. Theol. 7 other Profs. and Lectrs. Situated on Univ. grounds; quarters for 125 students.

(2) ROBERTSON THEOLOGICAL COLLEGE (Presbyterian), Edmonton. Chairman of Board of Management—J. A. McDougall; Secretary—H. C. Anderson; Principal—J. M. Millar, M.A., B.D., D.D., Prof. of Engl. Bible, etc. Another Prof. and a Head of extra-mural Dept. and Lectr. Site allotted for buildings on Univ. grounds.

(3) ST. AIDAN'S COLLEGE and Hostel (C. of E.), Edmonton—affiliated, 1919. Warden—Rt. Rev. Bishop Gray.

(1) and (2) co-operate, Profs. of both instructing joint classes.

Five other Colls. and Schools in Edmonton and 2 in Calgary are affiliated for Matricn.

GENERAL INFORMATION (v. also p. 267)

Telegraphic address—Vera (A.B.C. Code)

The University was created by Act of the Provincial Legislature in 1906. The office of President was constituted in 1907, and a Board of Governors with financial and administrative control in 1910, the Senate being restricted to educational supervision. Classes began, September 1908. In 1912 extension work, conducted from the beginning, was departmentalized under a Secretary, and a Faculty of Law was created. Faculties of Applied Science and of Medicine were established in 1913; Faculty of Agriculture, 1915; courses in Pharmacy and in Dentistry, 1914 and 1917 respectively; and in Household Economics, 1918 Three student residences were opened in 1911, 1912, and 1914 respectively, while the main teaching and administrative building was completed in 1915. The grounds, some 637 acres, command a fine view of the Saskatchewan valley. Edmonton is a city of about 60,000 inhabitants. The main interests of the province are agriculture and coal-mining. Industrial growth is still in its infancy, but the province has great resources in coal, water power, natural gas, lumber, asphalt, etc.

LIBRARY, 18,000 vols., including special collection of books by Canadians and about Canada. LABORATORIES include full equipment, Chem., Phys., Assay., Coal, Cement and Concrete, for carrying out all tests on materials.

FACULTIES. Arts and Sciences; Applied Science; Medicine and Dentistry; Law; Agriculture. Schools of Accountancy and Pharmacy.

MATRICULATION examns., as well as High School examns., held in April, June, and Sept. under the control of the High School and Univ. Matricn. Examns. Board of the province.

DEGREE COURSES. 4 yrs.—B.A., B.Sc. in Arts, B.A. in Household Econ., B.Sc. in Engin. (Civ., Elec., or Mining), in Archit., or in Pharmacy, LL.B., D.D.S. (first 2 yrs. provided here, after which students are admitted to McG. or Tor. without further examn. for completion of course); 3 yrs.—B.Sc. in Household Econ. or in Agric.; 6 yrs. (5 for returned soldiers)—M.D. (3 yrs. provided here, after which students are admitted to McG. or Tor. for completion). Combined B.A. and B.Sc. in Arts—6 yrs.; B.A. and B.Sc. in Applied Sc.—6 yrs.; B.A. and M.D.—8 yrs.; B.A. and LL.B.—6 yrs. (v. also pp. 168, 225, 298, 323).

A Bachelor may obtain the M.A. or M.Sc. in Arts by 1 yr. of advanced study or investigation. The B.D. is open to B.A. students of affiliated Colls. on completion of approved courses. The LL.D. is for distinction in Lit. or Science, or notable public service.

FEES, tuition per session: Arts (including 4 yrs. degree courses in Pharm. and Household Econ.), $30; Appl. Sc., $60 to $80; Law, $15; Med., $100 (1st yr., $75); Acctcy, $25 and $50; Agric. (including 3 yrs. course in Household Econ.), free. Students' Union, $7; Med. Service, $3.

SCHOLARSHIPS: several, particulars obtainable from Registrar. L. H. Bishop Memorial Fellowship in Engl. Lit., $200, open to graduates of the Univ.

RESIDENCE, ETC. 4 Halls of residence (including 1 belonging to an affiliated Coll.), with accommodation for 400. Fees per month for room, $12; board, $28. Social life is under supervision of Provost, a Univ. officer.

UNIVERSITY EXTENSION work includes travelling and packet libraries and lantern slide and cinema services.

THE YEAR 1919–20

NEW BUILDINGS. Medical building begun.

NEW POSTS. Dean of Faculty of Med.; Prof. and Director of School of Pharmacy; Asst. Prof. of Field Husbandry (2nd); Asst. Profs. of Anat., Hist., Maths., Mining, French, Physics; Profs. of Mining and of Physiol.; Assoc. Prof. of Mech. Engin.

CHANGES IN CURRICULA, ETC. The entire Univ. curriculum in all faculties was revised with a view to greater freedom in election of courses, without abandoning basic features of a sound education.

OTHER DEVELOPMENTS. Scientific Assocn. of the Univ. was formed. It formulated and submitted to Govt. for consideration 40 problems of pressing importance in relation to the economic life of the province. With the concurrence of Govt., the Univ. assumed the duty of Economic research into the resources of the province under the general chairmanship of the Provincial Secy. In this connexion the Univ. farm was authorized by the Board of Governors to conduct an experimental station for Agric. research.

NUMBER OF STUDENTS (1916–17 to 1918–19). Full-time, preparing for B.A.—108, 135, 158; LL.B.—40, 40, 58; B.S.A.—20, 32, 24; M.D.—36, 48, 84; B.Sc.—9, 9, 14; B.A. and B.Sc. in Household Econ.—0, 1, 7; D.D.S. and B.Sc. in Pharm. and Pharm. License—3, 3, 2; B.D.—6, 5, 4; Combined B.A., LL.B.—9, 12, 20; Other combined degrees—4, 8, 17; Evening and Occasional students—67, 29, 37; special course in Agric. for Returned Soldiers (1918–19)—127; Graduate students preparing for M.Sc.—6, 5, 0.

DEGREES CONFERRED (1919). B.A., 36, including 15 women; B.Sc. in Arts, 4; in Engin., 7; in Agric., 5; in Household Econ., 1; LL.B., 5; D.D.S., 2; B.D., 3; M.A., 14; M.Sc. in Arts, 1.

UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, QUEBEC

CHANCELLOR—JOHN HAMILTON, M.A., D.C.L.

VICE-CHANCELLOR — H. H. BEDFORD-JONES, M.A., D.D.T.C. Tor. Principal of the College.

REGISTRAR—J. C. STEWART, Bursar and Secy. of the College.

PROFESSORS AND LECTURERS

..... Harold Prof. of Divinity.

Boothroyd, E. E., M.A. Camb., Prof. of History and English Literature.

Burt, H. C, M.A, T.C. Tor., Prof of Philos. and Econ., Lectr. in Church Hist.

Call, F. O., M.A., Prof of Mod. Langs, Dean of Residence and Librarian.

The Principal, Hamilton Prof. of Classics, Lectr. in Hebrew and Old Test

Morgan, J., Lectr. in Natural Science.

Rae, W A., M.A., Lectr. in Classics.

Richardson, A. V., M.A. Camb., Lectr. in Maths.

Vial, F. G., M.A., B.D., Warden of the Divinity House, Mountain Prof. of Past. Theol., Lectr. in Classics.

GENERAL INFORMATION (v. also pp. 41, 168, 267)

The College, founded in 1843, was in 1853 by Royal Charter constituted a University with power to confer degrees. It is administered by a Corporation consisting of the Anglican Bishops of the Province and Trustees and Council appointed by them jointly. The Bishops of Montreal and Quebec are President and Vice-President respectively of the Corporation and Visitors of the College.

The College provides ordinary and Honours courses for the B.A. degree, covering 3 yrs., and a 2 yrs. course for the L.S.T. Divinity is a compulsory subject in each of the years of the ordinary course. Terms kept in other Univs. may be counted up to 2 yrs. Clergymen of the Dioceses of Quebec and Montreal may proceed to the B.A. by examns. without residence if of 6 yrs. standing, and on a reduced period (1 or 2 yrs.) if of 4 or 2 yrs. standing.

Examns. are conducted for degrees in Music.

FEES. For tuition, $75 p.a.; board and furnished lodging with heating and lighting, $300 p.a.

THE YEAR 1919–20. *Number of students* (Oct. 1920): Divinity, 8; Arts, 60 (including 27 women). *Degrees conferred*: B.A., 13; M.A., 2; B.D., 1; L.S.T., 6; Honorary D.C.L.—Sir D. Watson, Lt.-Col. J. Almond. *Resignation*: Principal Parrock, apptd. Prof. of Classics in Colgate Univ., N.Y.

THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.
CHANCELLOR—R. E. MCKECHNIE, M.D., C.M.
PRESIDENT—LEONARD S. KLINCK, M.S.A , D.Sc.
REGISTRAR—S. W. MATHEWS, M.A.
LIBRARIAN—J. RIDINGTON, Acting.

PROFESSORS, LECTURERS, ETC.

Agriculture v. *infra*

Bacteriology
Mullin, R. H., B.A., M.B. Tor. (Red Cross Prof. of Pub. Health) Prof.
Coleman, R. E., M.B. Tor. Lectr.
McLean, Miss O. C. E., B.A. Asst.

Botany
Hutchinson, A. H., M.A. McM., Ph.D. Chic. Assoc. Prof.
..... Asst. Prof. of Plant Path.
Davidson, J., F.L.S.
Botanist i/c Herbarium, etc.

Chemistry
Archibald, E. H., B.A. Dal., A.M , Ph.D. Harv. Prof.
Clark, R. H., M.A. Tor., Ph.D. Leip. Assoc. Prof.
Seyer, W. F., B.A., M.Sc. Alb., Ph.D. McG. Asst. Prof.
3 Assts.

Classics [Prof.
Robertson, L. F., M.A. McG.
Todd, O. J., Ph.D. Harv.
Assoc. Prof.
Logan, H. T., B.A. McG., M.A. Ox. Asst. Prof.
Mildmay, A. N. St. J., M.A. Ox. Asst.

Dairying v. Agric.

Economics
Boggs, T. H., B.A. Ac., M.A., Ph.D. Yale Prof.
..... Assoc. Prof.
Angus, H. F., B.A. McG., B.C.L., M.A. Ox. Asst. Prof.
Beckett, S. E., M.A. Qu. Lectr.

Engineering, Civil, & Surveying
..... Prof.
Matheson, E. G., B Sc. McG., M.E.I.C., M.Am.S.C.E.
Assoc. Prof.
Powell, W. H., B.Sc. McG. Instr.
4 Assts.

Engineering, Mechanical
..... Prof.
Killam, L., M.A. Mt. All., B.Sc. McG. Assoc. Prof.
Ryan, C. C., M.Sc. McG.
Asst. Prof.
7 Assts.

English
Sedgewick, G. G., B.A. Dal., Ph.D. Harv. Prof.
Henry, J. K., B.A Dal. Asst. Prof.
Wood, F. G. C., B.A. McG., A.M. Harv. Asst. Prof.
MacDonald, W. L., B.A. Tor., M.A. Wisc , Ph.D. Harv. Asst. Prof.
Larsen, Thorleif, M.A. Tor., B.A. Ox. Asst. Prof.
Walker, F. C., B.A. N.B., Ph.D. Harv. Asst. Prof.

Forestry
..... Prof.

French v. Mod. Langs.

Geology [Prof.
Brock, R. W., M.A. Qu., F.G.S.
Schofield, S. J., B.Sc. Qu., Ph D. Mass. Inst. Tech. Prof.
..... Assoc. Prof. of Palæont.
Uglow, W. L., M.A. Qu., B.Sc. Sch. Mi. Kingston, M S., Ph.D. Wisc. Assoc. Prof.

History [Assoc. Prof.
Eastman, M., B.A. Tor., Ph.D. Col.
Sage, W. N., B.A. Tor., M.A. Ox. Asst. Prof.

Horticulture v. Agr.

Mathematics
Buchanan, D , M.A. McM., Ph.D. Chic. Prof.
Robinson, G. E., B.A. Dal. Assoc. Prof.
Richardson, L., B.Sc.Lond. Asst. Prof.
Jordan, E. E., M.A. Dal. Asst. Prof.
Henry, J., M.A., B.E., B.A. Camb. Instr.

Mining and Metallurgy
Turnbull, J. M., B.Sc. McG Prof.
Thomson, H. N., B.Sc. McG. Prof. of Met.
Gillies, G. A., M.Sc. McG. Assoc. Prof. of Mi.
..... Asst. Prof. of Met.
1 Asst.

Modern Languages
Ashton, H., M.A. Camb., D.Lett. Univ. Paris, D.Litt. Birm., O.I.P. Prof. of French.
Clark, A. F. B., B.A. Tor., Ph.D. Harv. Assoc. Prof.
MacInnes, Isabel, M.A. Qu. Asst. Prof.
Grojean, G., L. ès L. et en Dr. Asst. Prof.
Clark, Mrs. A. F. B., B.A. Tor. Instr.
1 Instr. and 2 Assts. in French, 1 Instr. in Spanish

Nursing
Johns, Miss E. I. Asst. Prof

Philosophy
Coleman, H. T. J., B.A. Tor., Ph.D. Col. Prof.
Henderson, J , M.A. Glas. Assoc. Prof.

Physics
Hebb, T. C., M.A., B.Sc. Dal., Ph.D. Chic. Prof.
Davidson, J. G., B.A. Tor., Ph.D. Calif. Assoc. Prof.
Hennings, A. E., M.A. Lake Forest Coll., Ill., Ph.D. Chic. Assoc. Prof.

Public Health v. Bact.

Zoology
Fraser, C. McL., B A. Tor., Ph.D. Iowa Prof.

Agriculture

Agronomy
Boving, P. A., Cand. Phil. and Agr. (Sweden). Prof.
..... Asst. Prof.
Moe, G. G., B S.A. McG. Asst. Prof.
Boving, G. B., B S.A. McG. Extension Asst.
Derrick, A. Asst.

Animal Husbandry
King, H. M., B.S.A. Guelph Assoc. Prof.
Davis, R. L., B.S.A. Mont., M.S.A. Iowa Asst. Prof.
Hare, H. R., B.S.A. Guelph Ext. Asst.
..... Lectr. in Vet. Med.

Dairying
Sadler, W., B.S.A., M.Sc. McG., N.D.D. (Reading) Assoc. Prof.
Golding, N. S., N.D.D., B.S.A. Guelph Asst. Prof.
Vollum, R. L., B.A. Research Asst.

Horticulture [Prof.
Clement, F. M., B.S.A. Guelph
Barss, A. F., A.B. Roch., B.S.Agr.
Corn., M.S. Oreg. Ag. Coll.
Assoc. Prof.
Buck, F. E., B.S.A. McG.
Asst. Prof.

Middleton, W. A., B.S.A. McG.
Extension Asst.

Poultry Husbandry
Lloyd, E. A., B.S.A. Sask.
Assoc. Prof.
.....
Asst. Prof.

AFFILIATED COLLEGE—*Victoria College*, Victoria, B C.: for 1st and 2nd years in Arts.

GENERAL INFORMATION (v. also p. 267)

Telegraphic Address—UBRICO.

An Act of the Provincial Legislature was passed in 1890 establishing a University of British Columbia, but it lapsed in 1891. Vancouver High School was affiliated to McGill for the first year in Arts under the name of Vancouver College in 1899. In 1902 Victoria High School was similarly affiliated as Victoria College. In 1906 the Royal Institution for the Advancement of Learning of B.C. was incorporated and established, the McGill Univ. Coll. of B.C., taking over, by agreement, the Arts work of Vancouver College (extended in 1908 to include the 3rd yr. in Arts), and adding 2 yrs. of Applied Science. In 1907 Victoria College was incorporated in the Univ. Coll. The connexion with McGill was brought to a close in 1915, when the University of British Columbia, incorporated by an Act of 1908, and endowed with 2,000,000 acres of land, was opened, with provision for a complete course in Arts and 3 yrs. in Applied Science.

The Board of Governors consists of the Chancellor, elected by Convocation, President, and 9 nominees of the Lieut.-Govr. in Council. The Senate consists of the Minister of Educn., Chancellor, President (as Chairman), Dean, and 2 Profs. of each Faculty, 3 nominees of the Lieut.-Govr. in Council, Supt. of Educn., principals of normal schools, one member elected by high school principals and assts., one by Provl. Teachers' Inst., one by each affiliated Coll. or School in the Province, 15 by Convocation.

The University site consists of 250 acres on the headland of Point Grey, 300 feet above the sea. The Science building, now under construction will cost $600,000. The LIBRARY has 33,000 vols. and 10,000 pamphlets, and regularly receives 275 periodicals. LABORATORIES available for all courses. A Forest Products Lab. with Olsen 30,000 lb. Testing and Hat-Turner Impact Machines has been established by the Forestry branch of the Dept. of the Interior. HERBARIUM, 10,000 sheets, and Bot. Garden, 5 acres.

Students are ADMITTED as (1) undergraduates, by Matricn. examn. or its equivalent; (2) conditioned undergraduates, with a view to completing matricn. requirements during first year; (3) partial students. Every student is submitted to a physical examn. on entrance. Session 1921–22 begins Sept. 27.

DEGREE COURSES. B.A., 4 yrs. (3 from Senior matricn.). B.Sc. in Applied Science, 4 yrs. (following 1st yr. in Arts or Senr. matricn.). A degree course in nursing covers 5 yrs., including 2 yrs. of hospl. training. B.S.A., 4 yrs. from Junr. matricn. Double course, B.A. and B.Sc., 6 yrs. SHORT COURSES in Mining, 8 weeks, Jan.–March (no entrance qualification except ability to

read and write); in Agric. at the Univ. and elsewhere. Evening courses, with summer excursions, in Botany. Summer course for Certificated Teachers of the Province.

Work at OTHER UNIVERSITIES of a standard equivalent to that of this Univ. is accepted *pro tanto* (v. also p. 323).

FEES, inclusive, $40 per session. Graduation, $20.

FELLOWSHIP. $200 awardable to graduate for further studies.

RESIDENCE. Board and lodging in vicinity of the College from $35 p.m.

PUBLICATION. *Calendar* (April).

THE YEAR 1919–20

BENEFACTIONS. Imperial Order, Daughters of the Empire in Vancouver, a Scholarship of $110; Dr. R. P. McLennan, a Scholarship of $250

ADDITIONS TO BUILDINGS. Chemistry, Biology, and office, cost $44,000.

NEW DEPARTMENTS, ETC. Depts. of Zool. and Nursing; Chair (Red Cross) of Pub. Health; Summer School for Teachers; 3rd year work in Civil and in Mech. Engineering.

CHANGES IN REGULATIONS, ETC. Fees in all Faculties raised from $10 to $40 per session. Returned men exempt from fees. Certificates of work done at other Univs. are now accepted *pro tanto*. Victoria Coll., Victoria, B.C., affiliated for 1st and 2nd yrs. in Arts.

NUMBER OF STUDENTS (2 yrs., 1918–20). Regular undergrad. courses in Arts—467, 661, including women, 270, 325; Applied Sc.—54, 164 (women, 1, 3); Agric.—17, 45 (women, 2, 2). Graduate students—0, 20 (women, 11). Short courses: Agric.—184, 215; others—213, 425.

DEGREES (1918–19, 1919–20). B.A.—47, 50; B.Sc—0, 9; M.A. or M.Sc. —2, 10.

RESIGNATIONS. D. McIntosh, Prof. of Chem., to accept post in Print Works; J. A. McLean, Prof. of Animal Husb., to accept post on staff of Agric. Journal in U.S.A.; E. H. Russell and P. H. Elliott to take posts in Victoria Coll.

DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA

CHAIRMAN OF THE BOARD OF GOVERNORS—GEORGE S CAMPBELL

PRESIDENT OF THE UNIVERSITY—A. STANLEY MACKENZIE, Ph.D., D.C.L., F.R.S.C.

REGISTRAR OF THE FACULTY OF ARTS—Prof. M. MACNEILL, M.A.

PROFESSORS, LECTURERS, ETC.

Anatomy
Cameron, J., M.D. Edin., D.Sc. St. And., M.R.C.S. Campbell Prof.
Campbell, D. St. C., M.D., C.M. Demr.
Curry, W. H., M.D., C.M. McG., F.R.C.S. Edin. Demr.
Murray, F. J., M.D., C.M. Demr.

Archæology [Lectr.
Falconer, J. W., M.A. Edin., D.D.

Biblical Literature
Kent, H. A., M.A. Lectr.

Biology [Asst. Prof.
Dawson, J. A., Ph.D. Yale
Bell, H. P., M.Sc. Asst. Prof.

Chemistry [McLeod Prof.
Nickerson, C. B., M.A. Clark Instr.
Easson, R. C., M.A. Qu. Instr.

Classics
Murray, H., B.A. Lond., LL.D. Tor. McLeod Prof.
Nichols, E. W., Ph.D. J. Hopk. Tutor.
Logan, J. W., M.A. Lectr.
Butler, G. K., M.A. Lectr.

Dentistry v. *infra*

Economics v. Hist.

Engineering, Civil
Copp, W. P., M.Sc. McG. Prof.

English Lang. and Lit.
MacMechan, A , B A. Tor , Ph.D. J. Hopk. Munro Prof.
Shannon, M. Josephine Reader.

Geology [Asst. Prof.
McIntosh, D. S , M Sc McG., B.A.

History and Pol. Econ.
Wilson, E. E., M.A. Qu. Prof.

Law v. *infra*

Mathematics
MacNeill, M , M.A. Harv. Prof.

Medicine and Surgery v. *infra*

Modern Languages
Jones, H. P., B.A. Vind., Ph.D Heid. McLeod Prof.

Philosophy [Munro Prof.
Stewart, H. L., M.A. R.U.I. and Ox., Ph.D. R.U.I.

Physics [Munro Prof.
Bronson, H. L., B.A., Ph.D. Yale
The President Lectr.
Johnstone, J. H. L., Ph.D. Yale Instr.

Physiology
Harris, D. Fraser, C.M., M.D. Glas., B.Sc. Lond., D.Sc. Birm. Prof.
MacIntosh, G. A., M.D., C.M. Demr.

Political Science
..... Prof.

Law

Agency and Procedure
Jenks, Stuart, LL.B., K.C., Deputy Attorney-General Lectr.

Constit. and Internat. L.
MacRae, D. A., Ph.D. Corn., B.A. Munro Prof.

Contracts
Russell, Hon. Benjamin, M.A., D C.L. Mt. All.* Prof.

Crimes and Torts
Wallace, W. B., LL.B † Lectr.

Evidence, etc.
Patterson, G., M.A., LL.B.† Lectr.

Insurance [Lectr.
Allison, E. P., B.A., LL.B., K.C.

Mortgages and Suretyship
Murphy, T. W., K.C. Lectr.

Partnership
Bell, F. H , K.C. Lectr.

Procedure [Lectr.
Paton, V. J., B.A., LL.B., K.C.

Real Property [Lectr
Read, J. E., B.C.L. Ox., B.A.
Stewart, J. McG , B.A., LL B. Lectr.

Shipping
Burchell, C. J., M.A., LL.B., K.C. Lectr.

Statutes
McInnes, H., LL.B., K.C. Lectr.
Rogers, T. S.,B.A. Ac., K.C. Lectr.

Wills and Admin.
Harris, Hon. R. E., D.C.L. Vind., C.J.* Lectr.

Medicine

Anæsthetics
Lessel, J. F., M.D., C.M. Demr.

Bact. v. Path. and Skin Dis.

Diseases of the Eye, etc.
Mathers, R. E., M.D. N.Y. Lectr.

Hygiene
Prof. Hattie Lectr.

Materia Medica
Buckley, A. F., M.D., C.M. Prof.
Burbridge, G. A., M.N.S. Phm. Soc. Demr.

Medical Jurispr.
Royer, B. F., M.D. Jeff. Lectr.

Medicine and Clin. Med.
Silver, L. M., B.A. Vind., M.B., C.M. Edin. Prof.
Smith, M. A. B., M.D. N.Y., M.D., C.M. Vind. (Clin.) Prof.
Campbell, G. M., M.D. Bell. Hosp. (Clin.) Prof.
MacKenzie, K. A., M.D., C.M. (Med.) Lectr.
MacIntosh, G. A., M.D., C.M. Lectr.

Mental Diseases [Prof.
Hattie, W. H., M.D., C.M. McG.

Obst. and Dis. of Women and Children
Curry, M. A., B.A. Vind., M.D. N.Y. Prof.
Almon, W. B., M.D., C.M. (Obst.) Assoc. Prof.

Path. and Bacteriology
Nicholls, A. G., M.A., M.D., C.M., D.Sc. McG. Prof.

Pediatrics
Forrest, W. D., M.D., C.M., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

Skin Diseases
Mack, F. G., M.B., C.M. Tor. (Demr. in Bact.) Lectr.

Surgery and Clin. Surg. [Prof.
Hogan, E. V., M.D., C.M. McG., M.R.C.S.Eng.,L.R.C.P.Lond.
Chisholm, M., M.D., C.M. McG., L.R.C.P. Lond. (Clin.) Prof.

* Judge of the Supreme Court of N.S. † Judge of the County Court.

McDonald, H. K., M.D., C.M. McG. (Clin) Prof.
Stewart, J., M B., C M., LL.D. Edin. (Surg.) Prof.
Weatherbe, P., M.B., Ch.B Edin. (Op. Surg) Lectr. & Demr.
McDougall, J. G., M.D., C.M. McG. (Clin) Lectr.
Thomas, L., M.D., C.M., M.R.C.S. Eng., L.R.C.P. Lond. (Pract. Surg.) Demr.

Therapeutics
Corston, J. R., B.A., M.D., C.M. Lectr.

Dentistry

D. Anatomy
Ritchie, S. G., B.A. N.B., D.M.D. T.D.C. Prof.

Crown and Bridge Work, etc.
Thomson, G. K., D.D.S. P.D.C. Prof.
Oxner, W. C., D.D.S., B.C D S. Lectr.

Genl. and Oral Surg. and Anæsth.
Woodbury, F. V., M.D., C.M. Dal., L.R.C.S. and L.R.C.P. Edin., L.F.P.S. Glas. Prof.

History, Ethics, and Jurispr. v. Prosthetic

Operative D.
Ryan, F. W., D.D S Mich. Prof.
Beckwith, W. H. H., D.D.S. Penn. Lectr.

Orthodontia
Woodbury, W. W., B.Sc., D.D.S. P.D.C. Prof.

D. Path. and Therap
Cogswell, A. W., M D., C.M. Hfx., M.C., D.D.S. Penn. Prof.
Prof. Ryan Lectr.

Prosthetic D.
Woodbury, Frank, D.D.S. P.C.D S (also Prof. of Hist., etc) Prof.
Woodbury, R. H., D.D.S. P D.C. Lectr.
Fluck, G. H., D.D.S. P.D.C. Lectr.
Faulkner, A. W., D.D.S. Lectr.

AFFILIATED INSTITUTIONS

PRESBYTERIAN COLLEGE, Halifax. Classes and examns. in Hebrew, Gaelic, and New Testament Greek at the Coll. are recognized as qualifying for the B.A. Students may complete the Div. course at the Coll. and take the B.A. in 6 yrs.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Students holding certain certifs. of the Coll. are admitted to the 1st, 2nd, or 3rd yr. of the B.A. course.

HALIFAX CONSERVATORY OF MUSIC. Courses recognized for Mus.B. and Lic.Mus.

MARITIME COLLEGE OF PHARMACY. Courses recognized for B.Phm.

MOUNT ST. VINCENT ACADEMY. Recognized for Advanced Standing in Arts.

GENERAL INFORMATION (v. also p. 267)

Dalhousie College, founded in 1818 by the Earl of Dalhousie, was in 1841 granted Univ. powers, but was closed in 1845 for want of sufficient funds. In 1863 it was re-organized and opened with a staff of 6 Professors. In 1877 the Faculty of Science was organized, and from 1879 development proceeded rapidly with the help of the benefactions of George Munro of New York ($350,000), Alexr. McLeod of Halifax ($65,000), and Sir Wm. Young ($88,000).

The Faculty of Law was established in 1883, the School of Mines in 1902. In 1911 the Halifax Medical College, into which the Faculty of Medicine (organized in 1868) had been merged, was acquired by the Univ., and the College of Pharmacy was established with its co-operation. In 1912 the work of the Maritime Dental College was taken over by the Univ. In this year $400,000 was collected for a new site (40 acres) and buildings, etc., towards which Andrew Carnegie gave $40,000. Further benefactions amounting to $200,000 were received in 1915–18.

Appointments to the Board of Governors are made by the Govr.-in-Council on the nomination of the Board or on the nomination, with the approval of the Board, of individuals or bodies supporting chairs.

LIBRARY, 20,000 vols. and 5000 pamphlets. Access also to Science Library —16,000 vols. and 30,000 pphlets.; Legislative—21,000 vols.; Theol.—11,000; Law—18,000. MUSEUMS: Ornith., Geol., Indian antiquities. Access to Provincial Museum of Geol., Mineral., Zool. LABORATORIES: Chem., Physical, Geol., Engin., Biol.

FACULTIES. Arts and Science (including Commerce, Music, Pharmacy, and Engineering); Law; Medicine; Dentistry.

MATRICULATION requirements are articulated to the High School system of the Province which covers the 4 last years of the Public School 12-year course. The compulsory subjects for admission to the B.A., Phm.B., and LL.B. courses are (1) English, (2) Maths., (3) Latin or Greek, (4) another foreign language, (5) History (British or Ancient), Physics, or Chem.; B.Sc. or B.Mus.—(1), (2), (5), French, German; M.D., C.M., or D.D.S.—(1), (2), (4), Latin, Brit. Hist., Physics, Chem.

The 4 Univs. of the Province hold an annual conference on the subject of Matricn.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Com., D.D.S.; 3 yrs.—LL.B., Mus.B; 5 yrs.—M.D., C.M. (taken together); 1 yr. (following 4 yrs. practical experience)—Phm.B.; the first 2 yrs. of the Engin. course (v. p. 270). A B.A. of one of the Univs. of N.S. or N. Bruns. who has taken Law subjects for part of his course may qualify for the LL.B. in 2 yrs. The M.D., C.M., and D.D.S. can be reached by concurrent courses in 7 yrs. The M.A. or M.Sc. is given on successful completion of an approved one-year course of study by a B.A. or B.Sc., respectively, of an approved Univ. The course may be pursued by graduates of Dalhousie wholly or in part by private reading, attendance at the Univ. being optional for them (v. also pp. 168, 216, 225).

DIPLOMA course for the Lic.Mus.—2 yrs. Music and Pharmacy courses are taken in the Affiliated Institutions, v. *supra*. A 6 months course of training for Pub. Health work for trained nurses is provided.

FEES. For tuition, for each class (ex. lab. or draughting-room), $16; lab. or draughting-room class, $21.

RESIDENCE. Hostel for 60 women students, erected at a cost of $200,000. Dormitories are provided also for men students.

PUBLICATIONS. *Calendar* (July); *Annual Report* (Sept.); *Gazette*, $1.

THE YEAR 1919–20

BENEFACTIONS. Rockefeller Foundation, $500,000 for new medical buildings ($400,000) and endowment of Med. School; Carnegie Corporation, $500,000 for endowment of Med. School; Mrs. E. B. Eddy, $300,000 for a

women students' residence; Brit. Emp. Steel Corpn., $250,000 for endowment of Scientific Research; W. A. Black, $60,000 for Chair of Commerce; Senator Wm. Dennis, $40,000, additional to $60,000 already given, for endowment of Chair of Govt. and Pol. Sc.; relatives of late Prof. J. G. McGregor, $20,000 for endowment of research in Physics; proceeds of general canvass in addition to above, $550,000.

SPECIAL EVENTS. Centenary celebrations in Sept. 1919, when representatives from Edinburgh (Dalhousie's prototype) and many other Univs. were present.

NEW BUILDINGS. Extension of Library to cost $50,000. Contracts made for Arts building, $150,000, and women's residence, $300,000.

OTHER DEVELOPMENTS. Dept. of Commerce; degree of B.Com—a 4 yrs. course, about half of classes being professional and technical; course of training for Pub. Health work of trained nurses.

NUMBER OF STUDENTS (2 yrs., 1918–20). Preparing for B A. or B.Sc.—184, 216; LL B.—19, 52; M.D.—112, 135; D.D S.—27, 54. Total students (1919–20), men, 483; women, 139. Students from outside Canada, 28.

DEGREES (1918–19, 1919–20). B.A. or B.Sc.—27, 36; I.L.B.—6, 12; M.D., C.M.—11, 11; D.D.S.—5, 2; M A. or M.Sc.—3, 4.

DEATH. E. Mackay, Prof. of Chem. RESIGNATION. R. A. Spencer, Prof. of Civ. Engin., to accept post in a Hydro-Electric Coy. His successor formerly held a post in a Dominion Govt. Office.

UNIVERSITY OF KING'S COLLEGE, WINDSOR, NOVA SCOTIA

PATRON—THE ARCHBISHOP OF CANTERBURY

VISITOR—THE ARCHBISHOP OF NOVA SCOTIA.

CHANCELLOR—SIR CHAS. J. TOWNSHEND, M.A., D.C.L.

VICE-CHANCELLOR AND PRESIDENT—T. S. BOYLE, M.A., D D.

REGISTRAR—T. H. HUNT, M.A., D.D.

PROFESSORS AND LECTURERS

Chemistry and Physics
Sturley, A. A., M.A. Ox. Prof.

Classics [Prof.
Willets, C. E., M.A. Camb., D.C.L.

Divinity [Senr Prof.
Vroom, Ven. Archdeacon F. W., M.A., D.D., D.C.L.
Hunt, T. H., M.A., D.D. Alexandra Prof.
Paterson-Smyth, C., M.A. Tor., B.D. (Past Theol., etc.) Prof.
Hiltz, R. A., M.A. (Rel. Educn., etc.) Prof.

Engineering
Nixon, R. L., B.Sc. Prof.

English
MacFarlane, W. D., M.A. McG., Ph.D. Gött. Prof.
Miller, R. A., M.A. Lectr.

French
Mason, E. M., B.A. Lectr.

German
Harley, H. A., M.A. Lectr.

History and Economics
The President Prof. of H.
Judd, W. W., M.A. Lectr. in E.

Law
Martell, L. H., M.A., LL.B. Lectr.

Mathematics
Wadley, H. W. A., M.A. Camb. Prof.

Modern Languages
..... Prof.

Philosophy and Ethics
Kingston, G. F., M.A. Tor., B.D. Prof.

GENERAL INFORMATION (v. also p. 267)

Opened in 1790 and established with full Univ. powers by Royal Charter in 1802. Governed by a Board of 36 members, of whom 19 are elected by Rural Deaneries, 11 by Alumni, 4 by Diocesan Synods. The Archbishop of Nova Scotia is Visitor and President of the Board. The Bishop of Fredericton is Vice-President.

The College has 2 Professors of Divinity, Professors of English Literature, Mathematics, Modern Languages, Philosophy and Ethics, Science, and Physics

and Engineering, and Lecturers in Pastoral Theology and Homiletics, History, Law, Mathematics, Philosophy, and S.S. Methods.

A SCHOOL OF LAW in connexion with the College was established in St. John, N.B., in 1892. It has a staff of 14 lecturers.

The College is *affiliated* with Oxford, Cambridge, and Dublin.

The *Provincial Technical College* at Halifax admits to its 3rd year students who have taken the prescribed Science course and passed the appropriate examns. in King's, and such students, on passing the final examn. of the Technical College, may be admitted to the B.Sc. degree (v. p. 270).

Students from the *Jamaica Church Theological College* who, after a residence of 6 terms there, pass the required examns. in the subjects of the Divinity course at King's, may receive the diploma of L.S.T.; and Divinity students who have completed the required residence at the Jamaica College, and have passed the necessary examns according to the requirements of King's, may be admitted to the degree of B.A.

THE YEAR 1919–20. *Benefactions*: Lady Haliburton, £15,000; others, £1000. *Special events*: In Feb. 1920 a fire destroyed the main building and men's residence. A new residence for women was opened. *Number of students*: Arts and Science, 88; Div., 17; Law, 35. *Degrees conferred*: D.C.L. (Hon.), F. R. Taylor, A. P. Shatford; B.A., 4; M.A., 9; B.D., 5; B.C.L., 7.

LAVAL UNIVERSITY, QUEBEC

VISITOR AND CHANCELLOR APOSTOLIC—H.E. Cardinal L. N. BÉGIN, Archbishop of Quebec.

RECTOR—F. PELLETIER, M. ès A., Supr. of the Seminary of Quebec.

SECRETARY OF THE UNIVERSITY AND MODERATOR—Prof. PH. J. FILLION, M. ès A.

PROFESSORS, LECTURERS, ETC.

Anatomy v. Med.

Astronomy, Practical
Smith, A. (Dir. of Quebec Observatory) Prof.

Chemistry
Filhon, Ph. J., M. ès A. Prof.

Chemistry, Analytical
Garneau, Sir G., B ès Sc.Ap., Ing Civ., C.L.D'H. Prof.

Classics
The Rector (Greek Lit.) Prof.
Hébert, P., M ès A. (Latin Lit.) Prof.

Commerce v. Law

Economics v. Law and Soc.

Elocution
Rivard, A., M. ès A., B. en Dr., D. ès L., K.St.Gr., K.C. Prof.

Forestry
Piché, G. C., Ing.For. Prof.
Bédard, A., Ing.For. Prof.

Forest Law
Richard, L. A., D. en Dr. Prof.

French Language
Aubert, A. Prof.

French Literature
Roy, C., L. ès L., D.Ph. Prof.

Geography
Garneau, A., M. ès A. Prof.

Geology and Mineralogy [Prof.
Vachon, A., M. ès A., L. en Th.

Histology v. Med.

History, v. also Law and Theol.
Chapais, Hon. T., D. ès L., C.St Gr., C.L.D'H. Prof.

History of Canada
Gosselin, Mgr. A., M. ès A. Prof.

Law v. *infra*

Mathematics
Tremblay, A. Prof.
Mercil, A., Ing.Civ., B. ès Sc.Ap. Prof.
Bergeron, O., M. ès A. Prof.

Medicine v. *infra*

Philosophy
Benoit, R., D.Th., L.Ph. Prof.

Physics
Simard, H., M. ès A., D.Th. Prof.

Physiology v. Med.

Social and Political Econ. [Prof.
Prince, J. E., D. en Dr., K.C.

Surveying
Gastonguay, J. N., Ing.Civ. Prof.
Joncas, P., Ing.Civ., B. ès Sc.Ap., M.Can. Soc. C.E. (Building and S.) Prof.

Theology
Paquet, Mgr. L. A., V.G., D.Th., M.St.T.A. Prof.

Nadeau, E., D.Th., L. en Dr. Can. Prof.
Gariépy, C. N., D.Th. Prof.
Gagnon, C., D.Th. Prof.
Vandry, F., L.Ph., L.Th. Prof.
Foy, C., Lic. en. Ph., D.Th. Prof.
Gignac, J., D.Th., D. en Dr. Can. (Canon Law) Prof.
Garneau, P. B. (Eccl. Hist.) Prof.
Grandbois, J. E., L. en Ph., D.Th. (Holy Script. and Orient. Langs.) Prof.
Robert, A., M.A., D.Th., D.Ph., D.St.T.A., L.Sc. Louv. Prof.

Law

Administrative L.
Sirois, L. P., D. en Dr. Prof.

Admin., Const., and Munic. L.
Sirois, J., D. en Dr. Prof.

Civil L.
Dorion, Hon. C. E., D. en Dr., K.C.* Prof.
Roy, F., D. en Dr., K.C., O.I.P. Prof.

Comml. Policy & Customs Laws
Pelletier, Hon. L. P., D. en Dr., K.C., Judge of the Ct. of K.B. Prof.

Commerc. and Marit. Law
Bernier, L. M. J. A., D. en Dr., K.C. Prof.
Marchand, A., D. en Dr., K.C. Prof.

Criminal L.
Lachance, A., L. en D., Judge Prof.
Fitzpatrick, Hon. Sir Chas., G.C.M.G., D. en Dr., P.C.C., Lt.-Govr. Prof.

History of L.
St. Laurent, L., D. en Dr. Prof.

International L.
Rivard, A., M.A., D. ès L., D. en Dr., K.C. Prof.

Procedure, Civil
Pouliot, A., D. en Dr. Prof.
Baillargeon, E., D. en Dr., K.C. Prof.

Roman L.
Flynn, Hon. E. J., D.en Dr.* Prof.
Belleau, E., D. en Dr., K.C. Prof.
Desrivières, E., D. en Dr. Prof.

Medicine

Anatomy, Descr.
Dagneau, C., M.D. Prof.

Anatomy, Pathological
Vallée, A., M.D. (Dir. of P.A. and Bact. Labs.) Prof.

Anat. and Oper. Med., Pract.
Pâquet, A., M.D. Prof.

Dermatology
Mayrand, R., M.D. Prof.

Gynæcology and Gyn. Clin.
Grondin, S., M.D., C.L.D'H., O.I.P. Prof.

Histology and Bact.
Hamel, A. C., M.D. Prof.

Hygiene, Public
Paquin, R., M.D. Prof.

Laryngology
Fiset, L. J. N., M.D. Prof.
Dussault, N. A., M.D. (Rhino-Lar., etc.) Prof.

Materia Medica
Faucher, P. V., M.D. Prof.
Turcot, E., M.D. Prof.

Ophthalmology
Pagé, J. D., M.D. Prof.

Ophth. and Ot. Clin., etc.
Coote, P., M.D. Prof.

Pathology, Ext. and Clin. Surg.
Simard, E. T. A., M.D., O.I.P. Prof.

Path., Genl. and Clin. Med.
Rousseau, A., M.D., O.A. Prof.

Path., Internal
Brochu, M. D., M.D., O.I.P. Prof.

* Judge of the High Court.

Pediatrics, Hygiene, etc.		*Therapeutics*	
Fortier, E. R., M.D.	Prof.	Guérard, J., M.D.	Prof.
Physiol. and Clin. Med.		*Toxicol., Leg. Med., etc.*	
Leclerc, O., M.D.	Prof.	Marois, A., M.D.	Prof.

INSTITUTIONS ANNEXED TO, ASSOCIATED WITH, AND AFFILIATED TO THE UNIVERSITY

[" Annexion " implies merely approval by the Univ. of the programmes of study and, in some cases, nomination of some of the staff, diplomas being granted on reports presented by the Directors of the annexed institution. " Affiliation " or—in the case of an institution outside the province of Quebec— " agrégation " involves control by the Univ. of examinations.]

ECOLE D'ARPENTAGE ET DE GÉNIE FORESTIER (Surveying and Forestry). Founded by Govt. and annexed to the Faculty of Arts. Director, Avila Bédard.

ECOLE AGRICOLE DE STE. ANNE DE LA POCATIÈRE, affiliated.

GRANDS SÉMINAIRES. (Pupils obtain the B. en Th. by passing a certain number of quarterly examns. in the Seminary.) Québec (comprising Theol. students under its jurisdiction or following its courses); Ste. Anne de la Pocatière (Coll. de Ste. Anne); Rimouski; Chicoutimi; Nicolet; Trois Rivières.

CONGREGATION DE NOTRE-DAME (women), affiliated.

COLLÈGES. (Preparing pupils for the examns. for Inscription and Baccalauréat.) Québec (Petit Séminaire); Nicolet (P.S.); Ste. Anne de la Pocatière; Trois Rivières (P.S.); Rimouski (St. Germain, P.S.); Chicoutimi (P.S.); Sherbrooke (P.S.); Lévis; Mont Laurier (P.S.); Ironside (Ecole Apostolique de St. Alexre. de la Gatineau).

COLLÈGES AGRÉGÉS. C. de St. Dunstan, Charlottetown, P.E.I.; C. de P.P. Jésuites, Edmonton, Alta.; C. de St. Pierre, Gravelbourg, Sask.

GENERAL INFORMATION (v. also p. 267)

The Univ. was founded by the Seminary of Quebec in 1852 under a Royal Charter. A general supervision of teaching and discipline is exercised by the Archbishop of Quebec as Visitor and Chancellor Apostolic and President of the Conseil Supérieur of Archbishops and Bishops of the Province. The Profs. of the Faculty of Theology are nominated by the Visitor, those of other Faculties by the Conseil de l'Université, composed of the Directors of the Seminary of Quebec and 3 Senior Profs. of each Faculty.

LIBRARIES, 146,000 vols. MUSEUMS: Mineral., Geol., Bot., Zool., Ethnol., Relig., Paintings, Coins. LABORATORIES: Chem., Phys.

FACULTIES. Arts (with School of Surveying and Forestry annexed), Theology, Law, Medicine.

DEGREES AND DIPLOMAS. The Univ. perpetuates the stages by which a Degree was, and still is, reached in the Univ. of Paris. The Baccalauréat (B. ès A., etc.) is not a Degree, but the recognition of the attainment by the student of a standard of general education which fits him to commence his professional studies. It is obtained before he leaves the affiliated Institute, Seminary, or College at which he has studied. There are not separate examns. for Inscription (corresponding with matric.) and Baccalauréat, but students who reach a certain standard in both Letter and Sciences obtain the B. ès A.; those who reach this standard in either and a certain lower standard in the other obtain the B. ès L. or B. ès Sc.; and those who reach only the lower in both (said to be equivalent to the matricn. of English Univs.) are "Inscrits." The course for the Licence covers 2 yrs. in Philos. (L. en Ph.); 3 yrs. in Theol. or Law (L. en Th. or Dr.). To obtain the D. en Ph. or D. en Dr. it is necessary to support successfully in public a thesis and propositions as in other French Univs. The D. en Th. and D. en M. or M.D. are granted after examn.

The complete medical course formerly lasted only 4 yrs., but since Jan. 1909 has, in accordance with the regns. of the Provincial Coll. of Phys. and Surgns., been framed so as to cover 5 yrs. The Baccalauréat, however, may be taken on the completion of 2 yrs. The Doctorat gives admission to the examn. for the Diploma of M.R.C.S. Lond. Inscription in Arts is recognized as corresponding to the Prelim. examn. of the R.C.S. Lond. The examns. for the Dipl. of Hygiéniste expert may be taken by a D. en M. after a 6 mos. course.

The Diploma in Forestry or Bachelorship in Surveying implies 4 yrs. study n the Sch. of Surveying and Forestry.

RECOGNITION of the B. ès A. of Laval is accorded by the Univs. of Rome, of France and of Louvain, and by Canadian Univs., and some of those of the U.S.A. (v. also pp. 168, 225).

FEES for tuition, $100 to $150 p.a.

THE YEAR 1919–20

BENEFACTIONS. Govt. grant, $1,000,000. A national subscription payable in 5 years has been organized in the district of Quebec, and will produce $1,250,000 for the Univ.

NEW DEVELOPMENTS. An Ecole Normale Supérieure, an Ecole de Commerce, and an Ecole de Chimie pure were organized.

NUMBER OF STUDENTS (1916–19), 378, 396, 450 (including Theol., 140, 153, 156; Med., 87, 104, 175; Pharm., 7, 9, 7; Law, 91, 84, 74; Arts, 24, 19, 22; Survey and Forestry, 29, 27, 16).

McGILL UNIVERSITY, MONTREAL

VISITOR—THE GOVERNOR-GENERAL OF CANADA.

PRESIDENT OF THE BOARD OF GOVERNORS AND *ex officio* CHANCELLOR—

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PRINCIPAL AND VICE-CHANCELLOR—Sir ARTHUR W. CURRIE, G.C.M.G., K.C.B., LL.D.

SECRETARY AND BURSAR—A. P. S. GLASSCO, B.Sc.

REGISTRAR—J. A. NICHOLSON, M.A., LL D.

LIBRARIAN—G. R. LOMER, M.A., Ph.D.

HON. REPRESENTATIVE IN GREAT BRITAIN—W. A BULKELEY-EVANS, M.A., 12 King's Bench Walk, Temple, London, E.C.

INCORPORATED COLLEGES

MACDONALD COLLEGE, at Ste. Anne de Bellevue (about 20 miles from Montreal), including School of Agric., School for Teachers, and School of Household Science.

Principal—F. C. Harrison, B.S.A. Tor., D.Sc.

ROYAL VICTORIA COLLEGE, Montreal (The Women's College of the Univ.).

Warden—Ethel Hurlbatt, M.A. Dub. (Somerville Coll., Oxford). Vice-Warden—.....

PROFESSORS, LECTURERS, ETC.

Accountancy, Business Organization and Spanish
Sugars, R. M., B.A., A.I.A. Dir. of Sch. of Commerce.
Brimacombe, L , C.A. Lectr. in A.

Agriculture v. *infra*

Anatomy
Whitnall, S. E., M.D. Prof.
Orr, A. E., M.D. Lectr.
Freedman, A. O., M.D. Lectr.
Smyth, W. H., B.A., M.D. Demr.

Architecture, v. also Engin., Civil [Macdonald Prof.
Traquair, R., A.R.I.B.A.
Nobbs, P. E., M.A., F.R.I.B.A., A.R.C.A. (Design.) Prof.
Turner, P. J., F.R.I.B.A. (Constrn., etc.) Lectr.
Carless, W., F.R.I.B.A. Asst. Prof.

Bio-Chemistry [Prof.
Macallum, A. B., M.A., M.B., Ph.D., D.Sc., LL.D., F.R.S.

Biology v. Zool.

Botany [Macdonald Prof.
Lloyd, F. E., M.A. Prin.
Derick, Carrie M., M.A. (Morph. B.) Prof.
..... Demr.

Chemistry, v. also Physiol.
Ruttan, R. F., B.A., D.Sc. Tor., M.D. Macdonald Prof.
Evans, N. N., M.A.Sc. Assoc. Prof.
Johnson, F. M. G., M.Sc., Ph.D. Bres., F.I.C. Assoc. Prof.
Maas, O., M.Sc., Ph.D. Harv. Asst. Prof.
9 Demrs.

Classics
..... Prof.

Slack, S. B., M.A. Ox. (Lectr. in Comp. Philol.) Prof.
McLean, R. A., Ph.D. Asst. Prof.
Carruthers, C., M.A. Asst. Prof.
Thompson, A. M., Ph.D. Harv. Lectr.
Irwin, Eliz. A., M.A. Lectr. & Tutor.*

Commerce v. Acctcy., Law

Dentistry v. *infra*

Economics v. Pol. Econ.

Education

School for Teachers in Macdonald College: [Dean & Prof.
Laird, S., M.A., B.Phil.
Brunt, H. D., M.A., Ph.D. Lectr.
Percival, W. P., B.A. Lectr.
Lockhart, A. R. B., B.A. Lectr.
Thompson, J. G., M A. Lectr.
McOuat, J. E., B.S.A. Lectr.
Musgrove, R. B. Lectr.
2 Instrs.
Tanner, Miss L. E. Lectr.
Giles, E. S., B.A. Head of Practice School

Engineering v. *infra*

English Lang. and Lit.
Lafleur, P. T., M.A. Molson Prof.
McMillan, C., M.A., Ph.D. Harv. Assoc. Prof.
Latham, G. W., B.A. Harv. Assoc. Prof.
Carr, Muriel B., M.A. Rad. Lectr.*

French [Assoc. Prof.
Du Roure, R., Agrégé France
Morin, J. L., M.A. Asst. Prof.
Touren, Lucie, L. ès L. France* Lectr.
Villard, P., M.A., M.D., O.I.P. Asst. Prof.

Geology
Adams, F. D., Ph.D. Heid., LL.D. Tor., D.Sc., F.G.S.A., F.R.S. (G. and Palæont.) Logan Prof.
Bancroft, J. A., Ph.D. Dawson Prof.

German
Walter, H., M.A. Edin., Ph.D. Mün. Prof.
Lambert, E. T., B.A. Ox. Asst. Prof.

Hebrew and Semitic Langs.
Brockwell, C. A. B., M.A. Prof.
Gordon, A. R., M.A., D.Litt. Aberd. Prof.

Hellenistic Jewish Lit.
Abbott-Smith, G., M.A., D.D., D.C.L. Sess. Lectr.

Histology and Embryology
Simpson, J. C., B.Sc. Assoc. Prof.
Fisk, W. M., M.D. (Histol.) Lectr.

History
Fryer, C. E., M.A., Ph.D. Harv. Assoc. Prof.
The Warden Tutor.*

Household Science
Philp, Miss B., Head of the School of H.S. in Macdonald Coll.
5 Instrs.

Law v. *infra*

Logic v. Philos.

Mathematics
Harkness, J., M.A. Camb. (Pure M.) Redpath Prof.
Sullivan, C. T., B.A. Dal., M.Sc., Ph.D. Chic., D.Sc. Assoc. Prof.
Murray, D. A., Ph.D. J.H.U. (Applied M.) Prof.
Gillson, A. H. S., B.A. Assoc. Prof.
Matthews, T. H., B.A. Asst. Prof.
Dodd, G. J., B.Sc. (Demr. in Civ. Engin.) Lectr.
Jamieson, R. E., B.Sc. Lectr.

Medicine v. *infra*

Metallurgy
Stansfield, A., D.Sc. Lond., A.R.S.M. Birks Prof.

* In Royal Victoria Coll.

Sproule, G. St. G., M.Sc. (Assaying) Lectr.

Mineralogy [Asst. Prof.
Graham, R. P. D., B.A. Ox., M.Sc.

Mining v. Engineering

Music
Perrin, H. C., Mus.D. Dub. Prof.
Lichtenstein, Clara Assoc. Prof.*

Philology v. Classics

Philosophy
Caldwell, W., D.Sc. Edin. (Moral P.) Macdonald Prof.
Hickson, J. W. A., M.A., Ph.D. Halle (Logic and Met.) Assoc. Prof.

Physics [Macdonald Prof.
Eve, A. S., D.Sc., F.R.S.
King, L. V., M.A. Camb., D.Sc. Assoc. Prof.
Shaw, A. N., B.A. Camb., D.Sc. Assoc. Prof.
Gray, J. A., O.B.E., D.Sc. Assoc. Prof.
Reilley, H. E., B.A., M.Sc. Asst. Prof.
5 Demrs.

Physiology
Tait, J., M.D., D.Sc. Drake Prof.
Eddy, N. B., M.D. Lectr.

Physiol. Chem.
Shaw, T. P., M.D. Lectr.

Political Economy
Leacock, S., B.A. Tor., Ph.D. Chic., Litt.D., LL.D. Prof.
Hemmeon, J. C., M.A., Ph.D. Harv. Assoc. Prof.
Sandwell, B. K., B.A. Lectr.

Psychology, Exper.
Tait, W. D., B.A. Dal., Ph.D. Harv. Asst. Prof.

Social Service
Falk, J. H. T. Director.
12 Lectrs. (Part-time).

Zoology [Strathcona Prof.
Willey, A., D.Sc., F.R.S.
Stafford, J., B.A. Tor., M.A., Ph.D. Leip. Lectr.
Jackson, F. S., M.D. (Biol.) Lectr.

Agriculture, School of, in Macdonald Coll.

Animal Husbandry
Barton, H., B.S.A. Prof.
Ness, A. R., B.S.A. Lectr.
McOuat, L. C., B.S.A. Lectr.

Bacteriology [Prof.
Harrison, F. C., D.Sc. (Principal)
Hood, E. G., B.S.A. Lectr.

Biology
Lochhead, W., B.A., M.Sc. Prof.
Dickson, B. T., B.A. Prof.

Cereal Husbandry
Summerby, R., B.S.A. Prof.
Raymond, L. C., B.S.A. Lectr.

Chemistry
Snell, J. F., Ph.D. Prof.
McCarthy, J. B., B.A., M.Sc. Asst. Prof.

Dairying
Larry, C. B. Instr.

Engin. and Manual Training
Emberley, G. E. Lectr.
Starrak, J. A. Lectr.

Homemakers Clubs, etc.
A Superintendent and 10 other Assts.

Horticulture
Bunting, T. G., B.S.A. Prof.
Tawse, W. A., B.S.A. Lectr.

Physics
Lynde, C. J., Ph.D. Prof.

Poultry
Jull, M. A., B.S.A. Lectr.

* In Royal Victoria Coll.

Dentistry

Clinical Dentistry
Thornton, A. W., D.D.S. (Dean of the Faculty) Prof.
Hart, R. A., D.D.S. Supt.

D. Pathology, Mat. Med. and Therap.
Henry, Fred. G., D.D.S. Prof.

Operative D.
Baxter, F. H. A., D.D.S. Prof.

Orthodontia
Morison, J. B., D.D.S. Prof.
McClelland, A. W., D.D.S. Lectr.

Crown and Bridge Work
Dohan, J. S., D.D.S. Lectr.

Prosthetic D.
Cameron, G. S., D.D.S. Lectr

D. Jurisprudence [Lectr.
Bond, W. L., B.A., B.C.L., K.C.

D. Anatomy
Jack, A. C., D.D.S. Lectr.

Oral Surgery
Pennoyer, A. R., M.D. Lectr.

D History, Ethics and Econ.
Stevenson, F. A., D.D.S., D.M.D. Harv. Lectr.

Engineering, v. also Archit.

Applied Mech. and Hydraulics
Brown, E., M.Sc., M.Eng. Prof.
Batho, C., B.Sc. Manc., B.Eng. & M.Sc. Liv., D.Sc. Assoc. Prof.

Civil E.
Mackay, H. M., B.A., B.A.Sc., M.Am.Soc.C.E. Prof.
Batho, C., B.Sc. Manc., M.Sc. and B.Eng. Liv., D.Sc. Assoc. Prof.
Lamb, H. M., M.Sc. (Lectr. in Archit.) Asst. Prof.

Civil and Municipal E.
French, R. de L., B.Sc. Lectr.

Economics
Brown, F. B., M.Sc. Lectr.

Electrical E.
Herdt, L. A., E.E. (Inst. Montef., Belg.), D.Sc. Macdonald Prof.
Christie, C. V., M.A., B.Sc. Dal. Assoc. Prof.
Burr, E. G., B.Sc. Asst. Prof.
Wallace, G. A., B.Sc. Lectr.

Freehand Draw. & Descr. Geom.
Armstrong, H. F. Assoc. Prof.

Mechanical E.
Roberts, A. R., M.Sc. Assoc. Prof.
McKergow, C. M., M.Sc. Assoc. Prof.
Coote, J. A., B.Sc. Lectr.
Fraser, J. M., B.Sc. Lectr.
3 Demrs.

Mining E. [Macdonald Prof.
Porter, J. B., E.M., Ph.D. Col., D.Sc. (Hon.) Cape, M.I.C.E.
Bell, J. W., M.Sc. Assoc. Prof.
..... Lectr.

Surveying and Geodesy
Kelly, A. J., B.Sc. Asst. Prof.
Weir, James, B.Sc. Asst. Prof.

Law

Civil L. [Prof.
Marler, W. De M., B.A., D.C.L.
Howard, Hon. Justice E. E., B.A., B.C.L., K.C. Prof.
Chipman, W. F., B.A., B.C.L., K.C. Lectr.
Beullac, P., K.C. Lectr.

Civil Procedure
Surveyer, E. F., B.A. Laval, B.C.L., K.C. Prof.

Commercial L.
Martin, Justice J. E., B.C.L., K.C. Prof.
Harris, S. L. Dale, B.A., B.C.L. Lectr.

Comml. and Private Internat. L.
McDougall, G. W., B.A., B.C.L., K.C. Prof.

Common L.
Smith, H. A., M.A. Ox. Prof.

Criminal L.
Greenshields, Hon. Justice R. A. E., B.A., B.C.L. Prof.

Ethics, Legal
Mignault, P. B., LL.D. Laval, K.C. Prof.

Evidence [Lectr.
Wainwright, A., B A., B.C.L., K.C.

History, etc.
Johnson, W. S. Lectr.

Insurance L.
Tyndale, O. S., M.A., B.C.L. Lectr.

Municipal L.
Rinfret, T., B.C.L. Lectr.

Roman L. [Gale Prof.
Lee, R. W., M.A. Ox., D.C.L.
Rose, H. E., B.A., LL.M. Lectr.

Medicine

Bacteriology
Bruère, A. A., M.D. Edin. (B. and Clin. Med.) Lectr.
Gurd, F. B., B.A., M.D. (Immunology) Lectr.
McKee, S. H., C.M.G., B.A., M.D. (B. and Ophth.) Lectr.
1 Asst. Demr.

Dermatology, v. also Ped.
Burnett, P., M.D. Lectr.

Gynæcology and Obst.
Chipman, W. W., B.A., M.D. and F.R.C.S. Edin. Prof.
Lockhart, F A. L., M.B. Edin., M.D. Assoc. Prof.
Goodall, J. R., B.A., M.D., D.Sc. Asst. Prof.
Little, H. M., B.A., M.D. Asst. Prof.
Patrick, D., M.D. Lectr.
Gray, H. R. D., B.A., M.D. Lectr.
Duncan, J. W., M.D. Lectr.
Burgess, H. C., M.D. Lectr.
Fraser, J. R., M.D. Demr.

History of M.
Macphail, Sir A., B.A., M.D. Prof.

Hygiene [Strathcona Prof.
Starkey, T. A., M.B., D.Ph., L.R.C.P. Lond., M.R.C.S. Eng., M.D., C.M.
McDonald, R. St. J., B.A., M.D., D.P.H. Lectr.
Jones, F. B., M.D., D.P.H. Lectr.

Med. Jurispr. [Prof.
MacTaggart, D. D., B.A.Sc., M.D.

Med. and Clin. Med., v. also Bact., Ped.
Finley, F. G., C.B., M.B. Lond., M.D. Prof.
Lafleur, H. A., B.A., M.D. Prof.
Martin, C. F., B.A., M.D. Prof.
Hamilton, W. F., M.D. Assoc. Prof.
Gordon, A. H., M.D. Lectr
Cushing, H. B., B.A., M.D. Lectr.
Peters, C. A., M.D. Lectr.
15 Demrs. and Asst. Demrs.

Mental Diseases
Burgess, T. J. W., M.D. (Med. Supt. Hospl. for Insane) Prof.
Porteous, C. A., M.D. Lectr.

Neurology, Clin.
Shirres, D. A , M.D. Aberd. Lectr.
Russel, C. K., B.A., M.D. Lectr.

Ophthalmology, v. also Bact.
Stirling, J. W., M.B. Edin., M.D. Prof.
Byers, W. G. M., M.D., D.Sc. Lectr.
Mathewson, G. H., B.A., M.D. Lectr.
Tooke, F. T., B.A., M.D. Demr.
1 Asst. Demr.

Oto-Laryngology
Birkett, H. S., C.B., M.D. Prof.
Hamilton, H. D., M.A. Bish., M.D., L.R.C.P. and S. Edin., L.F.P.S. Glas. (O.-L. & Rhin.) Lectr.
Craig, R. H., M.D. (O.-L. & Rhin.) Lectr.
4 Demrs. and Asst. Demrs.

Parasitology [Assoc. Prof.
Todd, J. L., B.A., M.D., D.Sc. (Hon.) Liv., M.R.C.S.E.

Pathology
Oertel, H., M.D. Strathcona Prof.
..... Assoc. Prof.
Abbott, Maude E., B.A., M.D. Bish., L.R.C.P. and S. Edin. Lectr.
4 Demrs.

Pediatrics and Dermatology, v. also Pharmacol.
Campbell, G. G., B.Sc., M.D. Lectr.
Fry, F. M., B.A., M.D. (and Demr. in Clin. M.) Lectr. in P.
Enright, W. E., B.A., M.D. Demr.

Pharmacology
Blackader, A. D., M.A., M.D. Prof. of P. & Therap. & Ped.
Scane, J. W., M.D. Asst. Prof.
Mason, J. L. D., B.A., M.D. Lectr.
Bourne, W., M.D. Demr.

Radiology
2 Demrs.

Surgery and Clin. Surg.
Armstrong, G. E., C.M.G., M.D., LL.D. Qu., D.Sc. Liv. Prof.
Hutchison, J. A., M.D., L.R.C.P. and S. Edin. Prof.
Garrow, A. E., M.D. Asst. Prof.
Bazin, A. T., M.D. (S. and Applied Anat.) Lectr.
Eberts, E. M., M.D., M.R.C.S. Eng. Lectr.
Archibald, E. W., B.A., M.D. Clin. Lectr.
Barlow, W. L., B.A., M.D. Clin. Lectr.
Keenan, C. B., M.D. Clin. Lectr.
Patch, F. S., B.A., M.D. (Genito-Urinary) Lectr.
Mackenzie, D. W., B.A., M.D. (Genito-Urinary) Lectr.
Turner, W. G., B.A., M.D., M.R.C.S. Eng. (Orthop. Surg.) Lectr.
Forbes, A. M., M.D. (Orthop. Surg.) Lectr.
Howell, W. B., M.D. (Anæsthesia) Lectr.
Hepburn, W. G., M.D. (Anæsthesia) Lectr.
12 Demrs. and Asst. Demrs.

AFFILIATED INSTITUTIONS

ACADIA, ALBERTA, MT. ALLISON, AND ST. FRANCIS XAVIER UNIVS. Students who have completed the 2 yr. course in Engin. of these Univs. are admitted directly to the 3rd yr. in McGill Engin. courses. Alberta students who have completed their 3rd yr. in the Med. course are admitted to the 4th in McGill.

GRADUATES OF THE ROYAL MILITARY COLLEGE, Kingston, are admitted to the 3rd yr. in McGill Engin. courses. Graduates and students of the Mechanical Science course of CAMBRIDGE are admitted to advanced standing in the Faculty of Appl. Sc. Particulars obtainable from the Dean of the Faculty.

THEOLOGICAL COLLEGES

CONGREGATIONAL COLLEGE OF CANADA, MONTREAL. Principal, D. L. Ritchie, B.A., D.D.

DIOCESAN COLLEGE OF MONTREAL. Principal, E. I. Rexford, M.A., LL.D.

PRESBYTERIAN COLLEGE, MONTREAL. Principal, D. J. Fraser, M.A., LL.D.

WESLEYAN COLLEGE OF MONTREAL. Principal, J. Smyth, LL.D.

Students enter after graduation or pursue courses concurrently in Arts at the Univ., in Theol. at the Coll.—6 yrs. in all.

GENERAL INFORMATION (v. also p. 267)

The Hon. James McGill, of Montreal, who died in 1813, bequeathed 46 acres of land, with some buildings and £10,000, to found a college, and in 1821 the

Royal Institution for the Advancement of Learning, the trustees for the purposes of the bequest, obtained a Royal Charter (amended in 1852) under which the work of teaching was begun in the Faculties of Arts and Med. in 1829. The Governors are the members of the Royal Institution above mentioned. Their number is limited to 25, and vacancies are filled by nomination of the remaining members, with the approval of the Visitor. The Govrs., Principal, and 42 Fellows (representing faculties and depts., grads., affild. colls., and other bodies) constitute the Corporation, the highest academical body, which frames regulations. The Peter Redpath Museum was opened in 1882, the Redpath Library in 1893, Royal Victoria Coll. in 1899, the Conservatorium in 1904. Macdonald College was opened in 1907, and in 1911 Sir Wm. Macdonald purchased for the use of the Univ., at a cost of $1,117,640, 25 acres of land, destined for students' residences and athletic grounds. In this year $1,550,000 were raised for the Univ. chiefly from Montreal citizens. Sir Wm. Macdonald bequeathed nearly $2,000,000, of which $500,000 was for the Medical Faculty and $300,000 for the Conservatorium. In 1918 the Carnegie Corporation, New York, gave $1,000,000 in recognition of McGill's service and sacrifice in the Great War. Income from Investments, about $1,000,000.

SPECIAL FEATURES. The provision for instruction and research in Applied Science is exceptionally ample, especially in Engin. in all its branches. The Med. School also is exceptionally strong.

LIBRARIES, 200,000 vols. (Medical, 40,000; large Ophth. Dept.) and 25,000 pamphlets; Peter Redpath collection of 10,000 political and religious tracts dating from A.D. 1561; E. S. Wood Library of Ornithology; Travelling Library. LABORATORIES: Engineering and Chemistry, each accommodating 600 students; Physics, 40,000 sq. ft.; Zool., 100 students, 3 rooms specially fitted up for research; Bot., 43 students; Physiol., 80; Psych. Research; Agric. Research. FARM, Live Stock and Grain, 387 acres. Astron. OBSERVATORY. MEDICAL MUSEUM (Strathcona), said to be the finest in America, cost $600,000; rich collection of disturbances of heart and vascular system and aneurisms. HOSPLS. available for clinics, general—800 beds, several special.

FACULTIES. Arts, Law, Medicine (including Pharmacy), Applied Science (Archit., and 6 branches of Engin.—Chem., Civil, Elec., Mech., Metall., Mining), Agric., Dentistry, Music. The Univ. has also a School of Commerce and (in Macdonald Coll.) Household Science and Teaching, and a Graduate School.

ADMISSION. For candidates in Great Britain an examn. is held in London in June: particulars obtainable from W. A. Evans, M.A., 12 King's Bench Walk, Temple, London, E.C.4. *Women* are not admitted to the Med. Faculty until after completing 2 yrs. in Arts.

DEGREE COURSES. 3 yrs.—B.Com., Mus.Bac.; 4 yrs.—B.A., B.Sc., B.S.A., B.C.L., B.H.S. (Household Science), D.D.S., LL.M.; 5 yrs.—B.Arch.; 6 yrs.—M.D., C.M.

B.A. or B.Sc. (Arts) course combined with B.Com., 5 yrs.; with Appl. Sc. or Theol., 6; Med., 8.

Med. students of 5 yrs. standing of an approved institution may be admitted to the final examn. after one full session in McG. Recent grads. of approved Univs. may qualify for examns. by advanced courses or special research.

HIGHER DEGREES. Obtainable by 1 yr. of resident graduate study at McG. (grads. of McG.—2 yrs. of private work), thesis and examn.—M.A., M.Sc., LL.M.; by 3 yrs. of graduate study—Ph.D.; by valuable contribution to

legal science—D.C.L.; by a composition and examn. not less than 3 yrs. after taking the Mus.Bac.—Mus.Doc.; on recommendation of Board of Grad. studies—D.Sc., D.Litt.

DIPLOMAS. Lic. Mus., D.P.H., Teachers', Pharmacy.

OTHER COURSES. Music Certif., Agric. (2 yrs. or 1 yr.), Household Sc. (2 yrs., 1 yr., or shorter), Social Science (1 yr., and numerous special courses).

ATTENDANCE at lectures at the Univ. or Macdonald or Affiliated Coll. is indispensable.

RECOGNITION by other Univs. v. pp. 41, 168, 216, 225, 253.

FEES. Per annual session, Arts, $100; Appl. Sc., $205; Med., $200; Dent., $200; Law, $150; Music, $175; Commerce, $150; M.A. or Ph.D. course, $40 Graduation fee for M.A. or M.Sc., $20; Ph.D., $30; D.Sc. or D.Litt., $80.

SCHOLARSHIPS FOR GRADUATES. In Econ. and Polit. Sc., Allen Oliver, $700; Chem., Sterry Hunt; Mining Research and Teaching Fellowships, 3 of $500 each; Med. Research, especially Obstetrics and Gynæc., A. A. Browne Endowment, $10,000, open to grads. of any recognized Med. school; Path. Research, J. Douglas Endowment, $25,000; Path. studentship, $1250 p.a. tenable 6 yrs.; any subject, "Delta Upsilon," $800; Law, Macdonald, Endowment, $20,000.

RESIDENCE. Women, Roy. Vict. Coll.; men, Strathcona Hall (Y.M.C.A.), accommodation for 60. PHYSICAL TRAINING is compulsory, and students are subjected to physical examn. on entering the Univ. Board and residence in Roy. Vict. Coll., $340 per session, $50 for summer classes; in private houses, $50 p.m. and upwards; rooms only, $12 to $20 per month.

McGill Union dining-room, accommodating 120 students at a time, provides inexpensive meals.

PUBLICATIONS. *Calendar* (June); *Coll. Announcements* (May to July); *Annual Report* (Dec.); *McGill News*, quarterly, by Graduates' Soc.; *Univ. Magazine*, by McG., Tor., and Dal.; *McGill Daily*, by students.

THE YEAR 1919–20

BENEFACTIONS. E. M. Berliner, $1000 for Bursaries; Dr. C. A. Wood and C. W. Lindsay, $5000 for Museum; H. McLennan family, $500 for Travelling Libraries; A. E. Holden Bequest, $500 for Pharmacy Dept.; Dr. James Douglas bequest, $50,000 for Dormitories; Delta Upsilon Soc., $14,000 for Scholp.; P. Molson Bequest, $75,000 for Stadium; Dr. C. W. Hoare, $5500 for Memorial Scholp.

NEW DEPARTMENTS, ETC. School for graduate *nurses* organized in connexion with the Univ. Diploma courses extending over 1 yr. (to be increased to 2 yrs.) adapted to requirements for Public Health nursing and for Teaching and Supervising in Schools of Nursing. *Physical Training* made compulsory for students of first two years, same credit being allowed for outdoor sports as for gymnasium work. Faculties of Dentistry and Music constituted in lieu of Departments.

NUMBER OF STUDENTS (1917–18 to 1919–20). Preparing for B.A.—281, 310, 449; B.Sc.—169, 237, 635; B.C.L.—38, 47, 130; B.S.A.—61, 32, 99; Lic.Mus. or Mus.B.—7, 27, 31; M.D.—365, 460, 629; D.D.S.—38, 59, 89;

B.Com.—10, 20, 97; Dipl.Pharm. (1919–20)—32. Occasional students—278, 216, 227. Total in 1919–20—2483, including 282 women, and exclusive of those attending regular course in School of Household Sc. at Macdonald College—120, School for Teachers—184, Evening Extension Course students—700, and Graduate School—66.

HONORARY DEGREES CONFERRED. H.R.H. The Prince of Wales; Gen. Sir A. Currie; Hon. S. A. Fisher; Maj.-Gen. G. L. Foster; A. L. Lowell, Pres. of Harvard; Brig.-Gen. A. G. L. MacNaughton; Hon. Mr. Justice Mignault; Viscount Burnham; Sir Harry Brittain; R. S. W. Jackson; T. W. Leys.

DEATHS AND RESIGNATIONS. T. Davies, d. Aug. 1920; C. W. Colby, Prof. of Hist., r. to attend to business interests; Sir C. Davidson, r.; J. A. Dale, A. W. Downs, N. B. Eddy, and V. J. Harding, r. to accept posts in Toronto Univ.; J. M. Elder, r.; D. S. Forbes, Asst. Prof. of Archit., r. to accept a mily. apptmt.; A. Geoffrion, Prof. of Civil Law, E. Lafleur, Prof. of Pub. Internat. Law, A. McGoun, Prof. of Civ. and Munic. Law, and A. E. Orr, Lectr. in Anat., r. to attend to private practice; Anita E. Hill, Head of Social Sc. Dept., Macdonald Coll., r. to be married; V. K. Krieble, r. to fill a Chair in U.S.A.; D. MacFarlane, r. to accept post in King's Coll., Windsor; J. C. Meakins, r. to fill Chair in Edinburgh; C. E. Moyse, r.; F. W. Skirrow, Asst. Prof. of Chem., r. to be Director of Research Labs. at Shawinigan; N. E. Wheeler, to fill Chair in U.S.A.; R. S. L. Wilson, to fill Chair in Alberta.

McMASTER UNIVERSITY, TORONTO

CHANCELLOR AND PRINCIPAL—A. L. McCRIMMON, M.A., LL.D.

REGISTRAR AND TREASURER—E. J. BENGOUGH, B.A.

EDUCATIONAL SECRETARY—S. S. BATES, B.A., D.D.

PROFESSORS, LECTURERS, ETC.

Biology
Smith, R. W., B.A., Ph.D. Prof.

Chemistry
Walker, W. O., M.A. Prof.

English
McLay, W. S. W., M.A. Prof.
McGregor, Enid A., B.A. Reader.

French
Franzen - Swedelius, B., B.A., Ph.D. Prof.

Geology
McNairn, W. H., M.A., Ph.D. Prof.

German
Mueller, P. W., B.A. Prof.

Greek
Campbell, P. S., M.A. Prof.

History [Prof.
New, C. W., B.A., B.D., Ph.D.

Latin
Moon, A. J., M.A. Prof.

Mathematics
Findlay, W., M.A., Ph.D. Prof.

Philosophy, Psychology, Logic, and Ethics
Ten Broeke, J., M.A., Ph.D. Prof.

Physics
Dawes, H. F., M.A., Ph.D. Prof.

Political Economy, Education, and Sociology
The Principal Prof.
Michell, H., M.A. Ox. Prof.

Public Reading and Speaking
Kirkpatrick, F. H., Ph.D. Spl. Lectr.

Theology

Church History and Missions
Brown, J. G., M.A., D.D. Prof.

Homiletics and Pastoral Theol.
Gilmour, J. L., M.A., D.D. Prof.

New Test. and Patristic Greek
Farmer, J. H., B.A., LL.D. Prof.

Old Test., Hebrew and Aramaic
Curr, H. S., M.A. Edin. Prof.

System. Theol. and Apologetics
Keirstead, E. M., M.A., D.D., LL.D. Prof.

Hon. Lectrs.:
MacNeill, J., B.A., D.D. (Evangelism).
Merrill, B. W., B.A., B.Th. (Rel. Educn.).

AFFILIATED COLLEGE (v. also p. 267)

BRANDON COLLEGE, Brandon, Man., controlled by Baptist Union of W. Canada. Affild. for courses in Arts.

GENERAL INFORMATION

In 1887 Toronto Baptist College and Woodstock College, Woodstock, were united under the name of McMaster University, and their already existing endowments were increased by $900,000, received under the will of the Hon. Wm. McMaster. The Board of Governors (16) are elected by the Baptist Convention of Ontario and Quebec. There is no religious test for entrance, but the Profs. and Lectrs. must be members of some evangelical church. Woodstock Coll. was separated from the Univ. in 1888, but both it and Moulton Ladies' Coll., Toronto (founded in 1888), are represented on the Senate.

LIBRARY, 23,000 vols. LABORATORIES: Phys., Biol., Chem., Mineral. Science Hall has 24 lecture rooms and labs.

DEGREE COURSES. 4 or 5 yrs., B.A.; 3 yrs. (after completing 2 yrs. of Arts course), B.Th.; 6 yrs., combined B.A. and B.Th. The first 2 yrs. in Arts do not necessarily involve attendance at lectures. Brandon Coll. provides instruction in Swedish for immigrants from that country.

The B.A. degree is recognized by Ox., Camb., Lond., and N.Y. State, v. also pp. 41, 168.

HIGHER DEGREES. Open to B.A after 1 yr. course (attendance at lectures not required),—M.A.; to B.Th. who are also B.A. and have taken 3 yrs. in Hebrew, involving 1 yr. of study after graduating as B.Th.,—B.D.

DIPLOMA. English Theol., 3 yrs. course.

CERTIFICATE. Missionary Training for women.

FEES. Annually, for tuition, examn., library—Arts, $50, Theol., $12. For student organizations, athletics, etc., men, $8, women, $6.50.

RESIDENCE. Board and room per session, men, in McMaster Hall, $220; women, in Wallingford Hall, $9 a week.

PUBLICATIONS. *Calendar* (June); *McMaster Monthly* (students' magazine); *McMaster Graduate*, quarterly.

THE YEAR 1919–20

BENEFACTIONS. Alumnæ, with help of gift of $32,000 from Wm. Davies, presented a house for residence of women students (30).

NUMBER OF STUDENTS (1917–20). Preparing for B.A.—120, 130, 183; B.Th. and Theol.Dipl.—16, 15, 22; Missionary Training Certif (1919–20), 2. In 1919–20 four graduates carried on advanced work in Toronto, others in Chicago and Illinois. Three were awarded studentships by Dominion Council for Industrial Research.

HONORARY DEGREES CONFERRED. D.D.—G. B. Cutten, C. B. Dreeman; LL.D.—N. S. McKechnie, T. C. Boville.

OTHER DEGREES. B.A., 38; B.Th., 2; M.A., 10.

DEATH. Prof. G. H. Campbell, succeeded by Prof. Moon from Texas.

RESIGNATION. Prof. W. S. Wallace, to accept post in Toronto Univ. Library.

UNIVERSITY OF MANITOBA, WINNIPEG

(No returns received since March 1920)

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHAIRMAN OF THE BOARD OF GOVERNORS—ISAAC PITBLADO, M.A., LL.B., K.C.

VICE-CHAIRMAN—J. A. MACHRAY, M.A., LL.B., K.C.

CHANCELLOR—Most Rev. S. P. MATHESON, D.D., D.C.L., Archbishop of Rupert's Land.

VICE-CHANCELLOR—Rt. Rev. Mgr A. A. CHERRIER, LL.D.

PRESIDENT—JAMES A. MACLEAN, Ph.D , LL.D.

REGISTRAR—W. J. SPENCE, B.A.

LIBRARIAN—F. E. NUTTALL, M.A.

DEAN OF THE FACULTY OF MEDICINE—S. W. PROWSE, B.A., M.D., F.R.C.S.

DEAN OF WOMEN—EDNA SUTHERLAND.

PROFESSORS, LECTURERS, ETC.

Architecture

Stoughton, A. A., Ph.B. Col. Prof.

Bacteriology [Prof.

Bell, G., B.A. Tor., M.D., C.M.

Botany

Buller, A. H. R., B.Sc. Lond., D.Sc. Birm., Ph.D. Leip. Prof.

Roberts, H. F., B.A. Kans., LL.B. N.-Wstn., M.Sc. Kans. (Agr.) Lectr.

Lowe, C. W., M.Sc. Birm. Demr.

Chemistry [Prof.

Parker, M. A., B.Sc. Glas., F.I.C.

Armes, H. P., B.Sc. Leeds, Ph.D. Stras. Asst. Prof.

Shipley, J. W., M.A., Ph.D. Harv. Asst. Prof.

Hiebert, P. G., B.A. Demr.

Lipshitz, S. Demr.

Classics

Clark, F. W., B.A. Man., Ph.D. Chic. Prof.

Coombes, G. F., M.A. Camb., D.D. Prof.

Jolliffe, R. O., B.A. Tor., Ph.D. Chic. Prof.

Bissett, Maude A., B.A. Asst. Prof.

Engineering, Civil

Finlayson, J. N., M.Sc. McG., M.E.I.Can. Prof.

Johnstone, L. I., B.S. Maine, A.M.Amer.Soc.C.E. Asst. Prof.

Moffatt, R. W., B.A.Sc. Tor., A.M.E.I.C. Asst. Prof.

Cowan, E. C., B.A.Sc. Tor. Demr.

Mackenzie, R. J. Demr.

Engineering, Electrical

Fetherstonhaugh, E.P., B.Sc. McG., A.M.E.I.C., A.M.A.I.E.E. Prof.

Dorsey, J. W., E.E. Lehigh, A.M.E.I.C., A.M.A.I.E.E. Asst. Prof.

Hall, N. M., O.B.E., B.Sc. McG., A.M.E.I.C. Lectr.

English
Crawford, A. W., M.A. Tor., Ph.D. Corn. Prof.
Perry, A. J., M.A. Yale Asst. Prof.
Durkin, D. L., B.A. Asst. Prof.
Pope, Emma F., M.A. Chic. Asst. Prof.
Edwards, J. A. M., B.A. Fellow.

French
Osborne, W. F., M.A. Tor. Prof.
Ballu, Céline A., B.A. Wisc. Lectr.
Haynaud, Anna M., B.A. Qu. Lectr.

Geology and Mineralogy
Wallace, R. C , M.A., D.Sc. Edin., Ph.D. Gött., F.G.S. Prof.
De Lury, J. S., M.A. Tor , M.A.I.M.E. Asst. Prof.
Burwash, E. M., M.A Tor., Ph.D. Tor. and Chic., B.D. Vict. (Tor.) Asst. Prof. (*ad int.*).
Thompson, L. G., B.Sc. Fellow.

German
Heinzelmann, J. H., B.A. Ill., Ph D. Chic. Prof.

History
Martin, C. B., M.A. N. Bruns., M.A., B.Litt. Ox. Prof.
Flenley, R., M.A. Liv., B.Litt. Ox. Asst. Prof.
Macdonald, N., M.A. Qu. Lectr. (*ad int.*).

Mathematics
MacLean, N. B., D.S.O., M.A. Tor. Prof.
Wilson, N. R., M.A. Tor., Ph.D. Chic. Prof.
Warren, L. A. H., M.A. Qu., Ph.D. Chic. Asst. Prof.
Tier, W., M.A. Tor. Asst. Prof.
Kingston, H. R., M.A. Qu., Ph.D. Chic. Asst. Prof.

Pathology and Histology
Boyd, W., M.D. Edin. Prof.

Pharmacy
Bletcher, H. E., Phm.B. Prof.

Physics
Allen, Frank, M.A. N. Bruns. & Corn., Ph.D. Corn. Prof.
McClung, R. K , B.A. Camb., M.A., D.Sc. McG. Asst. Prof.
Cameron, C. F., B A., B.C.E. Asst.
Twiss, D. L., B.A. McM. Demr.

Physiology
Vincent, S., M.D Lond., D.Sc. Edin. Prof.
Cameron, A. T., M.A., B.Sc. Edin. Asst. Prof.
Dickinson, E. J., M.D. Asst.

Political Economy
Clark, A. B., M.A. Edin. Prof.
Everall, E. S., B.A., LL.B. Asst.
McCullough, Lily A., M.A., LL.B. Asst.

Voice Production and Interpretation
Sutherland, Edna Lectr.

Zoology
O'Donoghue, C. H., D.Sc. Lond., F.Z.S. Prof.
Rowan, W , M.Sc. Lond. Lectr.

AFFILIATED COLLEGES represented on the Council, the first four having power to confer degrees in Divinity:

ST. BONIFACE COLLEGE, St. Boniface (R.C.). Rector—H. Bourque, S.J.

ST. JOHN'S COLLEGE, Winnipeg (C. of E.). Warden—.....; Deputy Warden and Secy.—G. F. Coombes, D.D.

MANITOBA COLLEGE, Winnipeg (Presb. Ch. in Canada). Principal—John MacKay, M.A., D.D.; Registrar—Prof. J. Dick Fleming, Ph.D.

WESLEY COLLEGE, Winnipeg (Meth. Ch. in Canada). Principal—J. H. Riddell, D.D., LL.D.; Registrar—A. Stewart Cummings, B.A.

MANITOBA LAW SCHOOL, Winnipeg. Chairman of Trustees—Hon. H. A. Robson, LL.D.; Recorder—R. J. Russell.

MANITOBA AGRICULTURAL COLLEGE, St. Vital. President—J. B. Reynolds, M.A.; Registrar—Prof. G. A. Sproule, B.A.

GENERAL INFORMATION (v. also p. 267)

Established in 1877 mainly as an examining and degree-conferring body, the Univ. was in 1900 empowered to give instruction. In 1917 a Board of Governors, appointed by the Lieut.-Govr., was constituted, and the functions of the Univ. Council, until then the governing body and composed largely of representatives of the affiliated Colleges, were limited to general charge of the academic work. The Univ. has the sole power of conferring degrees in Arts, Science, Law, Med., Engin., Pharmacy, Agric., and Archit. in the province. It received in 1898 from the Dominion Govt. a land grant of 150,000 acres.

Winnipeg, the capital of Manitoba, with its environs, including the neighbouring city of St. Boniface, has a population of over 270,000. The Univ. at present occupies a site in the heart of the city, but a new site on the outskirts has been selected. The Agric. Coll. at St. Vital, 7 miles distant, has a farm of 450 acres.

LIBRARY, 20,000 vols.; 321 periodicals received. LABORATORIES: Anat., Bact., Chem., Engin. (Material testing—200,000 lbs., Cement, Elec.), Geol. and Mineral., Path., Physics, Physiol., Zool. HOSPITALS available for clinics: 2 general (1000 beds) and several special, including tuberculosis.

FACULTIES. (1) A Univ. Faculty providing instruction in all subjects of undergraduate courses in Arts (except 4 options), Science, Engin., Arch., Phm., and some Med. subjects. (2) Medicine. Other subjects of Arts course and Law, Agr., and Home Ec. are taught in the affiliated Colls.

MATRICULATION examns. are conducted in June by the Provincial Educ. Dept. and in Sept. by the Univ. It is not necessary to pass completely at one time, and a candidate may enter on a Degree course, except in Law or Med., as a conditioned student. The subjects of Matricn. examn. for Arts or Science courses are English, Hist., Maths., Latin or Greek or French or German; a second language or 2 of the following sciences—Physics, Chem., Bot., Phys., Geog.; a third language or 2 sciences not already taken, or 1 science not already taken with Home Econ. or Indust. Arts or Music or Agric. or Comml. work. There are Senior Matricn. examns. for Med. and Engin. of the standard of 1st yr. examns. in Sc. or Arts. Instruction in subjects of Senior Matricn. is given in the Univ. and, in part, in affiliated Colls., but not at present in the High or Preparatory schools of the province. Members of any British or approved Univ. may be admitted *ad eundem statum* or *gradum* without Entrance examn.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Sc. (C.E., E.E., or Mech.E.), B.Arch.; 3 yrs., following 1st yr. in Arts or its equivalent—LL.B.; 5 yrs., following Senr. Matricn. (for graduate in Arts who included a prescribed minimum of General Science in Arts course—4 yrs.)—M.D. and C.M.; 3 yrs.—Phm.; 5 yrs.—B.S.A., B.H.Ec.

Attendance is required at 75 per cent of lectures in all subjects in which class instruction is given by the Univ. or an affiliated College. Extra-mural students may not take courses in Med., Sc., Arch., or Engin., or any course in Arts involving practical or lab. work, nor may they appear at examns. without permission of the Bd. of Studies.

The 1st yr. of the B.A. course includes 5 subjects, of which English, Maths., and a foreign lang. (already taken for matricn.) are compulsory; the 2nd—5, including English, Hist., and the same lang. One Science subject must be taken in the 1st or 2nd yr. unless both Physics and Chem. were taken for matricn. Work in Home Ec. at the Agr. Coll. may be included in the 3rd and 4th yrs.

The M.A. may be obtained by an extra year of study under the direction of the Univ. or an affiliated Coll. A thesis is required as well as examn.

By taking additional subjects in the LL.B. course a student may simultaneously obtain the Law Society's qualification for practice. The lectures are arranged so as not to interfere with articled students' attendance at their offices. Extra-mural courses may be taken by law students residing in Manitoba, and by graduates in Arts of an approved Univ. residing elsewhere. The LL.D. is honorary. In the B.Sc. Engineering courses summer work and thesis relating thereto are required. Theses for the M.Sc. (C.E. or E.E.) may be presented 2 yrs. after graduation, the interval having been spent in the active practice of the profession.

2 yrs. service in an Architect's office following graduation (B.Arch.) will qualify for licence to practise.

Students holding a 1st class Teachers' Non-prof. Certif. of the Provincial Ed. Dept. or its equivalent may complete " the Teachers' course " for B.S.A. in 3 yrs.

DIPLOMAS. Pharm. Chem. (2 yrs. course); Agr. (3 yrs.); Comml. (2 yrs.). In *Dentistry* the Univ. is the sole examining body in the province. The Univ. conducts examns. for admission to the Man. Assocn. of Graduate *Nurses* and to the practice of *Accountancy* and membership of the Inst. C.A. of Manitoba.

FEES. Tuition and examn. in Arts and Sc., $44 p.a.; Engin. and Arch., $63 to $88; Phm., $83; Med., $158 (4 yrs. students, $183); Law, $58. Licence to practise Med., $100. Agr. Dipl. course, $31; Degree course, $54 p.a.

SCHOLARSHIPS for graduates: $600 p.a. for 2 yrs., open to graduates in special courses in Arts, Med., or Engin., every alternate year, tenable at some other seat of learning.

RESIDENCE. Hostels at all affiliated Arts Colls. and Agr. Coll.

INTERCHANGE of teachers for a few days and conference annually with Univ. of N. Dakota.

UNIV. EXTENSION. Over 100 popular lectures each session at numerous places in the province and a few in Ont. are given by members of the Faculties of the Univ. and affiliated Colls. evening classes in Winnipeg.

PUBLICATIONS. *Calendars* (July), General, Matricn., and several faculties, free; *Manitoban* (students' paper), weekly; *Annual Report*, Historical notes (1877–1917); *Examn. Papers*, 50 c.

THE YEARS 1916–19

BENEFACTIONS. Govt. grants, annual, $125,000 to $135,000. Geological specimens several thousand, with library 600 vols. from J. W. Spencer of Washington, D.C.

SPECIAL EVENT. Visit of the Govr.-Genl.

ADDITIONS TO BUILDINGS. Old Law Courts.

LEGISLATION, v. General Information.

NEW POSTS. Spl. Lectrs. in Elec. and Mech. Engin.; Prof. of Zool.; Asst. Profs. of Engl. (2), Maths. (2), German, French, Geol. and Mineral, Civ. Engin.

OTHER DEVELOPMENTS. Agreement with Inst.C.A. Manitoba to conduct examns. for admission to practice. Arts Matricn. requirements modified by making Latin optional instead of compulsory and requiring only one foreign lang. Curriculum of first 2 yrs. in Arts modified by substitution of 5-subject for 4-subject scheme and requiring one and the same language to be taken in both yrs.

NUMBER OF STUDENTS, 1916–17 to 1918–19. Full-time, preparing for B.A.—323, 342, 403; B.Sc.—7, 9, 20; M.D.—89, 141, 164; B.C.E., B.E.E., or B.Arch.—25, 21, 31; LL.B.—89, 91, 54; B.S.A.—37, 47, 25; B.H.Ec.—13, 19, 18; Dipl.Phm.—14, 14, 9; Senr. Matricn.—54, 65, 95; Occasional—35, 12, 22; Graduates—15, 18, 21; Evg. Comml.—0, 180, 130; Returned Soldiers Tutorial Classes—0, 0, 130.

One graduate went to Chic., 1 to Tor., 1 to Col., 1 to Wisc. for further study. Graduates came for further study from Westn., McM., N. Dak., Adrian Coll., Dal., Qu. (2), Col., Kyushu.

DEGREES CONFERRED, 1918–19. B.A.—47, including 23 women; B.Sc.—5 (2 women); LL.B.—20; M.D.—30 (2 women); C.M.—8; B.S.A.—7; B.H.Ec.—4 women; M.A.—9 (2 women); B.Arch.—1; LL.D.—2; Dipl.Phm.—7.

MONTREAL UNIVERSITY

PATRON—S.E. Cardinal G. VAN ROSSUM.

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RECTOR—S.G. Mgr. G. GAUTHIER, D.Th., Bishop of Philippopolis.

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PRESIDENT OF THE EXECUTIVE COMMITTEE—Hon. F. L. BÉIQUE, LL.D.

VICE-RECTOR—Canon E. CHARTIER, M. ès A., L. ès L., D.Ph.

SECRETARY-GENERAL—E. MONTPETIT, B.A , LL.D., D.S.P. Paris.

TREASURER—O. Archambault.

LIBRARIAN—A. Fauteux, B.A.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. *infra*—Institns.

Anatomy, v. also Med. Histology

Mignault, L. D., M.D., M.Ch. Prof.
Delorme, L. N., M.D. Prof.
Latreille, E., M.D. (A. Path.) Prof.

Architecture

Beaugrand-Champagne, A. Prof.
Dyonnet, E. Prof.
Larue, A. Prof.
Poivert, J., D.Arch. Paris Prof.

Astronomy

Choquette, Mgr. Prof.

Biology [Prof.
Dalbis, L. J., L. ès Sc. Paris

Botany

Victorin, M. V. Prof.
Pelletier, A. (Prof. of *Maths.*) Prof.

Chemistry, v. also *Engin.*

Baril, G. H., M.D. (Bio-Chem.) Prof.
Morin, F., L. ès Sc. Paris Dean & Prof.
Nadeau, H., L. ès Sc. Paris Prof.
Laplante-Courville, D.Pharm. Prof.

Classics

Chartier, Can. E., M. ès A., L. ès L. Paris (Prof. of *Educn.*) Dean & Prof.
De Celles, F. Z. Mgr., M.A. Prof.
Maurice, P., D.D. Prof.

Commerce v. *infra*

Dental Science v. *infra*—Institns

Economics v. Law

Education v. Classics

Engineering v. *infra*

English Lang. and Lit.

Atherton, W., D.L. Prof.
Malone, P. Prof.

French

Le Bidois, G., D.L. Paris Prof.
Lorrain, L. Prof.

Geology v. Engin.

Hebrew v. Theol.

History

D'esy, J., L. ès L., D.S.P. Paris Prof. of Comml. and Genl. H.
Groulx, M. A. Prof.

Household Science

Anctil, Miss J. Prof.

Italian
Nelli, G. Prof.

Law v. *infra*

Mathematics, v. also Botany, Engineering
Beaupré, V. A. Prof.
Léveillé, A., B.A. Lond. Prof. (Finance).
Riou, J. P. Lectr. (Finance).

Medicine v. *infra*

Mineralogy v. Engin.

Music
Charbonneau, J. N. Head of Schola Cantorum.

Philosophy, Moral
Gauthier, O., D.Th., Ph.D. Prof.

Physics
Gendreau, E., L. ès Sc. Paris, Ph.D., M.D. Prof. of P. and of Bio-P.
Dollo, A. (Prof. of Mech. Engin.) Prof.

Physiology
Asselin, E. G., M.D. Prof.

Spanish
Gonzalès, B. Prof.

Veterinary Science v. *infra*—Institns.

Theology
Allard, R., D.Th. Prof.
Belcourt, E. Prof.
Dorvaux, J. E., D.Th., D.Dr. Can. Prof.
Dubeau, A. Prof.
Duchein, F., D.Th. Prof.
Filion, E. Prof.
Gattet, B. M., D.Th. Prof.
Jeannotte, H. J., D.Th. Prof.
Lesieur, R. Prof.
Many, N. V., D.Th. (Hebrew) Prof.
Savignac, E., D.Th. Prof.
Urique, P., D.Th. (Dean) Prof.
Yelle, E. Prof.

Commerce, v. also **History, Law, Maths.**

Accountancy and Business Organization
Doré, V. Prof.
Favreau, L. Lectr.

Banking and Stock Exchange
Vidricaire, E. C. Prof.
Guimont, E. Lectr.

Customs Legislation
Giroux, A. Prof.

Geog. & Tech. [Dean & Prof.
Laureys, H., B.Com.Sc. Louvain
Sainte-Marie, P., L.C.Sc. Lectr.

Insurance
Marot, T., B.A. Prof.

Publicity
Fontaine, E. Prof.

Engineering

Civil E., Public Works
Haynes, J., C.E. Prof.

Chem. (*Indus.*) *and Tech.*
Bourgoin, L., Ch.E. Prof.
Flahaut, J. Prof.
Lecointe, P., Ch.E. Prof.
Quéva, A. A. Prof.

Electrical E.
Frigon, A., C.E. Prof.
Villeneuve, A., C.E. Prof.

Hydraulics
Leluau, C., C.E. Prof.

Mechanical E., v also Physics
Desaulniers, E., C.E. Prof.

Mining E.
Mailhiot, A., C.E.Min.Eng. (Geol. and Mineral.) Prof.
Rolland, O., C.E. Lectr.

Mathematics, v. *supra* also
Fyen, A., C.E. Dean & Prof.
Labrecque, H., C.E. Prof.

Law

Administrative L.
Baudoin, G., L. en Dr. Prof.

Civil L.
Demers, Hon. L. P., LL.D., J. of High Ct. Prof.
Lafontaine, Hon. E., LL.D., J. of High Ct. (Dean) Prof.

Civil Procedure [Prof.
Taschereau, R., LL.D., K.C.

Comml. and Marit. L.
Perrault, A., D. en Dr., K.C. Prof.
Gérin-Lajoie, A., LL.D. Lectr.
Faribault, R., L. en Dr. Lectr.

Const. and Munic. L.
Cousineau, Hon. P., LL.D., J. of High Ct. Prof.

Criminal L. [Prof.
Morin, L. J. S., LL.D., K.C

Economics, Pub. Finance, and Statistics
Montpetit, E., K.C., LL.D., D.S.P. Paris Prof.

Industrial Legn. and Civ., Comml. and Indust. L.
Gouin, L. M., L. en Dr., B.A. Lectr.

Internat. L. and Hist. of L.
Lemieux, Hon. R., LL.D., K.C. Prof.

Notarial Procedure
Morin, V., LL.D. Prof.

Roman L.
Beaulieu, E., LL.D., K.C. Prof.

Medicine, v. also Anat.

Bacteriology
Bernier, A., M.D. Prof.
Aubry, H., M.D. Lectr.

Contagious Diseases
Leduc, J., M.D. Prof.
Delvecchio, P., M.D. Prof.

Deontology and Clin. Surg.
Saint-Jacques, E., M.D., B.A. Prof.

Dermatology and Syph.
Décarie, J. D., M.D. Prof.
Archambault, G., B.A., M.D. Prof.

Gynæcology [(Dean) Prof.
Harwood, L. de L., M.D.
Ethier, A., M.D. Prof.

Histology and Path. Anat.
Peyron, A., Ag. de France Prof.
Saint-Pierre, C., M.D. Lectr.
Jutras, L., M.D. Lectr.

History of Med.
Saint-Pierre, A., M.D. Prof.

Hygiene
Valin, C. N., M.D. Prof.
Baudouin, J. A., M.D. Prof.

Legal Med.
Derome, G. W., M.D. Prof.
Bourgoin, J., M.D. Prof.

Medicine, Clinical
Guérin, J. J., M.D., M.Ch., LL.D. Dub., K.C.St.Gr. Prof.
Benoit, E. P., M.D., O.A. Prof.
Bruneau, T., M.D. Lectr.
Lebel, H., M.D. Lectr.
Léger, A., M.D. Lectr. (C.M. & Path.).
Rouleau, A., M.D. Lectr.
Beauchamp, G. E., M.D. Lectr.
Verner, L., M.D. Lectr.

Mental Diseases
Tétreault, A., M.D. Prof.
Lefebvre de Bellefeuille, G., M.D. Lectr.

Neurology
Prévost, A., M.D. Prof.

Obstetrics
De Cotret, E. A. R., M.D. Prof.
Langevin, S., M.D. Lectr.
Forest, G., M.D. Lectr.

Ophth., Ot. and Rhino-Lar.
Foucher, A. A., M.D., O.I.P. Prof.
Boulet, R., M.D. Prof.
Roy, J. N., M.D. Prof.

Pathology, v. also Med.
Parizeau, T., M.D. Paris Prof. (P. and Clin. Surg.).
Lesage, A., M.D., O.A. Prof
Bourgeois, B., M.D. Prof

Pediatrics		*Surgery, Clinical*, v. also Deont., Path.	
Masson, R., M.D.	Prof.	Mercier, O. F., M.D.	Prof.
Pharmacology		Marien, A., M.D.	Prof.
Laurence, A. J., L.Ph.	Prof.	Hingston, D., M.D.	Prof.
		Demers, A., M.D.	Lectr.
Pharmacy v. *infra*—Institns.		Blagdon, A., M.D.	Lectr.
Phthisiotherapy		*Surg., Operative*	
Dubé, J. E., M.D., O.A.	Prof.	Rhéaume, Z., M.D.	Prof.
		Fournier, N., M.D.	Prof.
Propædeutics		*Therapeutics*	
Hébert, R., M.D., O.A.	Prof.	Masson, D., M.D. Paris.	Prof.

INSTITUTIONS ANNEXED TO, ASSOCIATED WITH, AND AFFILIATED TO THE UNIVERSITY

ECOLE POLYTECHNIQUE, MONTREAL. Annexed to the Faculty of Arts since 1887; subsidized by Provl. Govt. and by principal Railways of the Dominion. Principal, A. Boyer. V. *supra*, Engin.

ECOLE DE MÉDECINE COMPARÉE ET DE SCIENCE VÉTÉRINAIRE. Associated with the Univ.; subsidized and subject to inspection by the Agric. Dept. of the Provl. Govt. Dean, D. Généraux, M.V., Prof. of Anat. and Path. Director and Secy, F. T. Daubigny. 9 other Profs.

ECOLE DE CHIRURGIE DENTAIRE. Affiliated to the Univ. in 1904. Dean, Prof. of D.Path., Surg., and Hygiene, and Director, E. Dubeau, D. en Ch.D. 19 other Profs.

ECOLE DE PHARMACIE. Dean and Prof. of Chem., A. J. Laurence, L.Pharm. 11 other Profs.

INSTITUT AGRICOLE D'OKA. Affiliated to the Univ. About 30 miles from Montreal. Director-General, Père Athanase. 17 other Profs.

ECOLE DES HAUTES ETUDES COMMERCIALES. Affiliated to the Univ. in 1915. V. *supra*, Commerce.

ECOLE DES SCIENCES SOCIALES, ECONOMIQUES ET POLITIQUES. Associated with the Univ. in 1920. Director, E. Montpetit, K.C., LL.D. 10 other Profs.

ECOLE D'ENSEIGNEMENT SUPÉRIEUR POUR LES JEUNES FILLES, MONTREAL. Affiliated to the Univ. Sections—Lettres; Sciences (leading to the B. ès L., ès Sc., or ès Arts); Arts d'Agrément; Commerce; Œuvres Sociales; Enseignement Ménager. The regular course in the 1st section covers 3 yrs. President, Mgr. G. Gauthier, Vice-Rector of the Univ. Directrice, Sœur Sainte Anne-Marie, L.Ph.

GRANDS SÉMINAIRES. St. Sulpice; Valleyfield. COLLÈGES. Ste. Thérèse de Blainville (Petit Séminaire); Sherbrooke (P.S.); l'Assomption; St. Laurent; Joliette (P.S.); St. Hyacinthe (P.S.); Rigaud (Coll. Bourget); Montréal (P.S.); Valleyfield; St. Jean d'Iberville. OTHER AFFILIATED INSTITUTIONS. Instituts des Frères Maristes, de l'Instruction Chrétienne, de Sainte-Croix, de là Croix de Jésus (Modern Sec. Educ.), du Sacré Cœur et des Ecoles Chrétiennes, Ecoles de Musique (aveugles), de Dessin, d'Economie dom., Schola Cantorum.

GENERAL INFORMATION (v. also p. 267)

Established, as a branch of Laval, Quebec, in 1878, with Faculties of Theology and Law, to which were added Medicine in 1879 and Arts in 1887. Since 1889 this Institution has been practically independent of, though receiving its degrees from, Quebec, and on Feb. 14, 1920, it was incorporated under its present name by an Act of the Provl. Legislature. The general administration is conducted by a Senate, Commissions of Admn. and Studies, Univ. Council and Exec. Committee. Endowments: $4,000,000 from a national subscription (1920), $1,000,000 from the Provl. Govt., and $1,000,000 from the Seminary of St. Sulpice.

LIBRARY, 120,000 vols. Each Faculty and School has the necessary teaching collections and laboratories.

FACULTIES. Theol. (constituted by the Grand Seminary of St. Sulpice); Law; Med.; Pure Sciences; Letters.

DEGREES AND DIPLOMAS. Courses in the annexed assoc. and affild. institns. include—a 4 yrs. course in the Ec. Polyt., for the B. ès Sc. App.; 3 yrs. in the Ec. de Méd. Comp. for the D. en Méd.Vét.; 4 yrs. in the Ec. de Ch. Dent. for the D. en Ch.D.; 4 yrs. in the Ec. de Phm. for the B. en Ph. and D. en Ph.; 4 yrs. in Inst. Agric. d'Oka for the B. en Agr. and D. en Sc.Agr.; 1 yr. in the Ec. des H.E. Comm. for a Certif.

THE YEAR 1919–20

NUMBER OF STUDENTS. Theol., 265; Law, 125; Med., 345; Pure Sciences, 86; Letters, 100; Vet. Surg., 25; Dent. Chir., 175; Pharm., 185; Soc. Sc., 145; Engin., 135; Comm., 110; Agr., 120; Inst. d'Ens. Mod., 160; Music, 760; Household Sc., 85.

DEATH. G. Dujardin, Vet. Surg.

MOUNT ALLISON UNIVERSITY, SACKVILLE, N.B.

CHAIRMAN OF THE BOARD OF REGENTS—GEORGE STEEL, D D.
PRESIDENT OF THE SENATE—B. C. BORDEN, D.D., D.C.L.
SECRETARY—Prof. F. W. W. DES BARRES, B.A.
REGISTRAR OF THE FACULTY OF ARTS—Prof. W. M. TWEEDIE, M.A.

PROFESSORS, LECTURERS, ETC.

Biology
Crossman, R. A., B.A. Prof.

Chemistry
Bigelow, H. E., Ph.D. Prof.

Classics
Cohoon, J. W., Ph.D. Wood Prof.

Engineering
McKiel, H. W., B.A., B.Sc. (Mech. E.) Prof.
West, F. L., M.A., B.Sc. Asst. Prof.

English Lang. and Lit.
Tweedie, W. M., M.A. Prof.

French and Greek
Delano, C. C., Ph.D. Prof.

Law [Lectr.
Trites, R., B.A., LL.B. (Contracts)
Bennett, A. W., LL.B., Judge (Torts) Lectr.

Mathematics
Hunton, S. W., M.A. Prof.

Physics
Plummer, Helen C., M.A. Prof.
Bacon, G. S., B.Sc. Instr.

Political Sciences
President Borden Prof.

Psychology and Logic
Liddy, R. B., B.D., Ph.D. Massey Prof.

Theology
Line, J., M.A., B.D. Allison Prof.
Watson, W. G., B.A., B.D. (Hebrew and Engl. Bible) Prof.
Des Barres, F. W. W., B.A. (Church Hist.) Prof.

GENERAL INFORMATION (v. also p. 267)

The METHODIST CHURCH of Canada controls the administration, which is, however, conducted on strictly non-sectarian principles; a considerable number of the students belong to other religious denominations. The Univ. is named after C. F. Allison, founder (in 1843) of "Mt. Allison Wesleyan Academy," the Trustees of which were, by an Act of the Legislature of N.B. in 1858, authorized to establish as a degree-conferring institution, "Mt. Allison Wesleyan College." This name was changed in 1886 to "Univ. of Mt. Allison Coll." and in 1913 to "Mt. Allison Univ." In 1903 the McClelan School of Applied Science was opened in the Univ.

LIBRARY, 15,000 vols. Engineering WORKSHOPS with gasoline engine, etc.

FACULTIES. Arts, Science, Theology, School of Applied Science.

DEGREE COURSES. 3 yrs., B.Mus.; 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. "Senior Matricn." Certifs. (*e.g.* N.S. Provl. High School, grade A) admit to 2nd yr. of B.A. or B.Sc. course; Prince of Wales Coll. High Honour Diploma to 3rd yr. v. also p. 270.

HIGHER DEGREES. Open to B.A. of 1 yr. standing, M.A.; 2 yrs., B.D. Honorary, D.D., LL.D., D.C.L.

CERTIFICATES. Applied Science, 2 yrs. course (may be taken as part of 3rd and 4th yrs. of B.A. course); Finance and Com., 2 yrs.: Probationers for Ministry, 3 yrs.

RECOGNITION by other Univs. (v. pp. 41, 168, 285, 298, 323).

FEES, tuition and registration, annual: Arts, $80; Engin., $125.

RESIDENCE. Accommodation in the Univ. for 130 men and 60 women students. Board and lodging, $247 p.a.

PUBLICATIONS. *Calendar* (July); *Argosy* (students'), and *Mt. Allison Record*, monthly.

THE YEAR 1919–20

NUMBER OF STUDENTS (1917–18 to 1919–20). Full-time, preparing for Bachelorship or Diploma, 99, 131, 205 (including women, 42, 49, 44); for M.A.—2, 6, 3; Occasional or Special (chiefly women)—40, 29, 29.

DEGREES CONFERRED. B.A., 25 (including women, 7); M.A., 4. Engin. Certif., 4.

UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

VISITOR ON BEHALF OF H.M. THE KING—THE LIEUT.-GOVERNOR OF NEW BRUNSWICK.

CHANCELLOR—C. C. JONES, M.A., Ph.D., LL.D.

PRESIDENT OF THE SENATE—W. S. CARTER, M.A., LL.D., D.C.L.

REGISTRAR—HAVELOCK COY, M.A.

PROFESSORS AND LECTURERS

Chemistry [Prof.
Cameron, A., M.A., B.Sc. St. And.

Classics and Anc. Hist.
Raymond, W. T., B.A., B.A. Harv., LL.D. Dal. Prof.

Engineering, v. also Phys.
Turner, E. O., S.B. Mass. I. Tech. (Civil E.) Prof.
Stephens, J., M.A., M.A.I. Dub., M.I.C.E.I. (Mech. E. and Drawing) Prof.

English and Mod. Hist.
Harvey, E. L., B.A. Ox. Prof.

Forestry
Pulling, A. V. S., B.Sc. N.Y. State Coll. For. Prof.

French and German [Prof.
Elias, E., A.B. Harv., A.M. Chic.

Law
Richards, C., D., B.A. (Contracts and Const. Hist.) Lectr.
Hughes, P. J., B.A. (Torts, Crimes) Lectr.

Mathematics
The Chancellor Prof.

Natural History and Geol.
Cox, P., B.A., B.Sc., Ph.D. Prof.

Philosophy and Economics
Kierstead, W. C., Ph.D. Chic., M.A. Prof.

Physics and Elec Engin.
Baird, A. F., M.Sc. Prof.

GENERAL INFORMATION (v. also p. 267)

The " College of New Brunswick " was incorporated in 1800 by Provincial Charter, re-incorporated in 1828 by Royal Charter as " King's College," and merged in 1859 in the Univ. of N.B. established in that year. The Provincial Govt. appoints the Chancellor and a majority of the governing body, called the Senate, of which the Chief Supt. of Education for the Province is *ex-officio* President. The annual grant from Provincial revenues is $25,000.

LIBRARY, 14,000 vols. MUSEUMS, Natural History (rich in birds). LABORATORIES: Bot., Chem., Engin., Geol., Phys., Psych. OBSERVATORY: Telescope with 6" clear aperture.

DEPARTMENTS. Arts, Applied Science (Engineering and Forestry).

DEGREE COURSES. 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. (in Pure Science, Engin. or Forestry). The "Senior" Matricn. (or equivalent) Certif. admits to the 2nd year. The first 2 yrs. in Engin. are arranged to suit candidates for licences as Land Surveyors. The Forestry and Civ. Engin. courses may be combined in 5 yrs.

HIGHER DEGREES. Open to B.A. of 2 yrs. standing, M.A.; to B.Sc. in Pure Science of 2 yrs., in Engin. or For. of 3 yrs. standing, M.Sc.; to B.A. of 6 yrs. standing, B.C.L.; to B.C.L. of 5 yrs. standing, D.C.L.; D.Litt., D.Sc., LL.D. (Hon.).

RECOGNITION by other Univs. (v. pp. 41, 168, 253, 285).

FEES, tuition, annual: Arts, $60, Engin. or Forestry, $75.

THE YEAR 1919–20

BENEFACTIONS. $40,000 subscribed to Building Fund.

NUMBER OF STUDENTS (3 yrs., 1917–18, 1918–19, 1919–20). Full-time, preparing for B.A. or B.Sc.—72, 64, 141 (including, in 1919–20, 20 women); graduate students—1, 2, 3; others taking special courses not leading to degrees—4, 4, 32. In 1919–20 three students from U.S.A. were admitted.

HONORARY DEGREES. LL.D.—A. W. Duff, W. F. Ganong, Wm. McInnes.

OTHER DEGREES (3 yrs., 1917–20). B.A.—9, 5, 17; B.Sc.—5, 6, 14 (including 9 in Forestry); M.A. and M.Sc.—3, 6, 3.

RESIGNATIONS. C. S. McGinnis, Prof. of Physics, etc., to accept Chair in Temple Coll., Philadelphia; J. A. Spaulding, Prof. of French, etc., to accept Instructorship at Yale.

UNIVERSITY OF OTTAWA

APOSTOLIC CHANCELLOR—H.G. The Most Rev. C. H. GAUTHIER, Th.D., Archbishop of Ottawa.

RECTOR—LOUIS RHÉAUME, Th.D.

SECRETARY—A. JASMIN, Ph.D.

TREASURER—A. D. MCGOWAN.

PREFECT OF STUDIES—J. A. LAJEUNESSE, M.A.

PREFECT OF DISCIPLINE—R. LEGAULT.

PROFESSORS

[a = Arithmetic, c = Classics, e = English, f = French, h = History, m = Mathematics, r = Religious Knowledge.]

Allard, O.—f, h, r.
Arès, C. E.—f, r.
Arsenault, A. J.—c, e, h, r.
Beauchamp, A.—f, h, r.
Bergevin, L.—c.
Binet, J. L.—c & Chem.
Boileau, G.—e, r.
Bourassa, A., D.D.—r.
Bradley, F.—e.
Brosseau, H. D.—e, h, m, r.
Cannon, R., B.A.—e, h, m.
Cardin, H.—c, f.
Cary, A.—e, Geog., Econ.
Cavanagh, W.—e, m.
Choquette, F.—c, r.
Cornellier, P., B.A., Ph.D., Th.D.—r.
Côté, V.—f, r.
Coupal, G.—a, e, h, Geog.
Danis, R.—a.
Desnoyers, A., Ph.D.—r, Science.
Dubé, H., Ph.D., M.Sc.—m, Physics, Astron.
Duranseau, N.—e, Penmanship.
Fusey, A.—c, f.
Gauthier, I.—f.
Gravel, J.—c, f, r.
Guertin, A.—f, h, r.
Jasmin, A.—h, r.
Julien, O.—a, e, f, h, Stenography.
Lajeunesse, J. A., M.A.—Nat. Sc.
Lamoureux, R., Ph.D—r.
Latulipe, E.—a, f, r.
Leblanc, R.—Philos.
Leclerc, A.—m, Botany.
Legault, R.—Business.
Lesage, L.—a.
Marchand, G., Ph.D.—r.
Martel, G.—e, m, r, Biol.
Morisseau, H.—f, h, r.
Nadeau, L.—c, m.
Nilles, N., D.D.—c, Econ.
Paquette, A.—f, h, r.
Pelchat, J.—a, r.
Pelletier, A.—c, f.
Perruisset, L., D.Ph.—h, Philos.
Poulet, D., L.Ph.—Philos., r.
Renaud, E.—Chem., m.
Robert, U.—f.
St.-Georges, L.—c, f, h.
Sénécal, R.—Business.
Simard, G.—Eccl. Hist.
Véronneau, A., M.A.—c, r.
Vézina, E.—f, Penmanship.
Villeneuve, R., D.Ph.—r.

GENERAL INFORMATION (v. also p. 267)

The " College of Bytown," incorporated in 1849, changed its name in 1861 to " College of Ottawa," and became in 1866 the Univ. of Ottawa with power to grant degrees. The Univ. is conducted by the Oblate Fathers of Mary Immaculate.

LIBRARY, 25,000 vols. The Parliament Library, to which students have access, has 300,000 vols. MUSEUMS: In the Univ.—Geol.; access also to Geol. Survey Dept. Museum. The Dominion Observatory and Canadian Fisheries Museum are located in Ottawa. LABORATORIES: Chem., Phys., Mineral.

DEGREES, ETC. B.A., M.A., B.L. (Lit.), B.Phil., B.Th., D.Th., LL.D. (Hon.), Lic. Phil., Lic. Th. The Arts course leading to the B.A. or B.L. covers 4 yrs., the work of the Fourth to the Seventh " Forms," that of the first 3 Forms being preparatory to matricn. Extra-mural students may appear for examn. without attending classes in the Univ. for more than 1 yr. The B.A. exempts law and medical students from Prelim. Examns. and entitles the former to a reduction of 2 yrs. of the ordinary 5 yrs. course. The B.Th. and the L.Th. involve respectively 2 and 3 yrs. study of Theology after the completion of a classical course; the B.Ph. and the L.Ph. respectively 3 and 4 yrs. study after matricn. Marks assigned for the exercises of students are read in public once a month and monthly reports are sent to parents. v. also p. 168.

FEES. For Tuition and Board Residence per half-year, $300 Degrees from $5 to $75.

RESIDENCE. Students whose homes are not in Ottawa are required to live in the Univ. building where they are subject to strict discipline—*e.g.* no book or newspaper may be introduced without having been previously examined and approved of by the Prefect of Discipline.

THE YEAR 1919–20

NUMBER OF STUDENTS, including 300 juniors preparing for Matricn., and 250 following Commercial course—800.

DEGREES GRANTED. B.A., 9; B.Ph., 15; L.Ph., 14; D.Ph., 1; B.Th., 7; L.Th., 4; LL.D. (Hon.), 1; D.Litt. (Hon.), 2.

QUEEN'S UNIVERSITY, KINGSTON, ONTARIO

CHANCELLOR—E. W. BEATTY, K.C.

PRINCIPAL AND VICE-CHANCELLOR—R. BRUCE TAYLOR, M.A., D.D., LL.D.

RECTOR—A. E. Ross, C M.G., B.A., M.D.

VICE-PRINCIPAL—Prof. J. WATSON, M.A., D.D., LL.D., D.Litt.

REGISTRAR AND TREASURER—W E. McNEILL, Ph.D.

LIBRARIAN—Miss LOIS SAUNDERS.

DEAN OF WOMEN—Mrs. W. E. McNEILL, M.A.

PROFESSORS, LECTURERS, ETC.

Anatomy, v also Med. [Prof.
Kidd, G. E., B.A., M.D., C.M.
Sparks, J. F., B.A., M D., C.M. Asst. Prof. of Applied A.
McQuay, R. B., B.A., M.D. Fellow.
2 Assts.

Biology (*Botany and Animal Biol.*), v. also Med.
MacClement, T. W., D.Sc. Armour Inst., M.A. Allan Prof.
Klugh, A. B., M.A. Lectr.
Earl, R. O., B.A. Lectr.
Bissonnetre, T. H., M.A. Lectr.
O'Connor, F. X., M.D., C.M. Lectr. in Embryol. & Histol.

Chemistry, v. also Engin.
Goodwin, W. L., B.Sc. Lond., D.Sc. Edin. Prof.
Neish, A. C., M.A., Ph.D. Col. Prof.
Waddell, J., B.A. Dal., B.Sc. Lond., D.Sc. Edin., Ph.D. Heid. Asst. Prof.
McRae, J. A., M.A., F.I.C. Asst. Prof.
McKee, J. L., B.A.R.U.I., M.Sc. N.U.I., Ph.D. Freib. Asst. Prof.
Wright, A. H., M.A. Wash. and Jeff. Asst. Prof.
Cadenhead, A. F. G., B.A. Lectr.
3 Assts.

Chemistry, Biological
Lothrop, A. P., M.A. Ober., Ph.D. Col. Prof.
1 Asst.

Classics
Callander, T., M.A. Aberd. and Ox. (Greek) Prof.
Mitchell, G. W., M.A. Prof.
Jolliffe, R. O , Ph.D. (Latin) Prof.
Keill, L. G., B.A. (Greek) Lectr.
1 Tutor

Economics v. Polit.

Engineering, v. also Mining
Macphail, A. J., C.M.G., B.Sc. (General E.) Prof.
Arkley, L. M., M.Sc. (Mech. E.) Prof.
Goodwin, L. F., Ph.D., A.C.G.I., F I.C. (Chemical E.) Prof.
Wilgar, W. P., B.Sc. (Civil E.) Prof.
Malcolm, L., M.A., B.Sc. (Civil E.) Prof.

Jemmett, D. M., M.A., B.Sc. (El. E.) Asst. Prof.
Ellis, D. S., M.A., B.Sc. (Civil E.) Asst. Prof.
Rutledge, L. T. (Mech. and El. E.) Asst. Prof.

English
Macdonald, J. F., M.A. Prof.
Roy, J. A, M.A. Asst. Prof.
Kinnick, O. C. Lectr.
Gordon, Miss W., M.A. Instr.
Macdonnell, Mrs. L., M.A Instr.
5 Tutors.

French, v also Rom.
Hicks, R. K., B.A. Camb, M.A. Harv. Assoc Prof
Conacher, W. M., B.A. Lond. Lectr

Geology [Prof.
Baker, M. B., B.A., B.Sc., F.G.S.A.

German
Macgillivray, J., B A. Tor., Ph.D. Leip Prof.

History
M'Neil, J. T., Ph.D. Asst. Prof
Prince, A. E., M.A. Lectr.

History, Colonial [Prof.
Morison, J. L, M.A., D.Litt. Glas.

Mathematics
Matheson, J., M.A. Prof.
Gummer, C. F., M.A. Ox. Assoc Prof.
Miller, Norman, M.A., Ph.D. Harv. Lectr.
Wood, F. M., M.A., B.Sc. Lectr.
Johnston, K. P., B.A., B.Sc. Lectr.
Newlands, Mrs. A, M.A. Lectr.

Medicine v. *infra*

Metallurgy
MacKay, G. J., B.Sc. Prof.
Drury, C. W., B.Sc., Ph.D. (Electro M. and Research) Prof.

Mineralogy
Bruce, E. L., B.A., B.Sc. Prof.

Mining Engineering
..... Prof.

Philosophy
Watson, J., M.A. Glas., LL.D. Glas. and Tor., D.D. Knox, D Litt. Mich. Charlton Prof. of Moral P.
Ferguson, A. S., M.A. Ox. and St. And. (Mental P.) Prof.
Symons, N J., M.A. Ox. Asst. Prof.
2 Fellows.

Physics
Clark, A. L., B Sc. W.P.I., Ph.D. Clark Prof.
Baker, W C, M.A. (Expl.P) Prof.
Hughes, A. L., B.A. Camb., D.Sc. Liv. Research Prof.
Flammer, E., B.Sc. Calif., Ph.D. Harv. Asst. Prof.
Robertson, J. K., M.A. Tor. Assoc. Prof.
Morgan, S. C, B.Sc Lectr.
Watts, J. O., B A. Lectr.
1 Asst.

Physiology
Melvin, G. S., M.D. Aberd. Prof.
2 Assts

Political and Econ Science
Skelton, O. D., Ph.D. Chic., M.A. Prof.
Clark, W. C., M.A., Ph.D. Asst. Prof.
Ballard, J. W. Lectr.
1 Fellow.

Romance Lang. and Lit., v. also French
Campbell, P. G. C, M.A. Ox. Prof.
Brovedani, J H, D. ès L. Rennes Asst. Prof.

Semitic Langs. and Lit. [Prof.
Jordan, W. G., B A. Lond., D.D.
Wallace, H. T., B.A. Tor., Ph.D. Assoc. Prof.

Medicine

Anæsthetics v. Surg.

Bacteriology
Reed, G. B., M.A., B.Sc., Ph.D. Harv. (Asst. Prof. of *Biol.*) Prof.

Electro-Therapy
Quigley, J. P., M.A., M.D., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

Med. Jurispr. and Toxicology
Boyce, H. A., M.D., C.M. Lectr. in J., Clin. Asst. in Med.
Farrell, J. M., B.A. (M. J. and T.) Lectr.

Medicine and Clin. Med.
Connell, W. T., M.D., M.R.C.S. Eng., L.R.C.P. Lond. Prof.
Gibson, W., M.D. Asst. Prof. of M.
MacCallum, E. C. D., M.D., C.M. McG. Asst. Prof. of M.
Hopkins, B. H., M.B. Clin. Asst.
Jones, W. A., M.D., C.M. Clin. Asst. & Historian.
Angrove, H. S., M.D., C.M. Clin. Asst in M. & Demr. in *Anat.*
Day, H. E., M.D., C.M. Clin. Asst. in M. & Ped.

Obstetrics
Williamson, A. R. B., M.A., M.D., M.R.C.S. Eng., L.R.C.P. Lond. Prof.
O'Connor, F. J., M.D., C.M. Clin. Asst.& Demr. in *Anat.*

Ophth., Ot., Laryng. and Rhin.
Connell, J. C., M.A., M.D. Prof.
Cays, F. A., M.D., C.M. Clin. Asst.

Pathology
Miller, J., M.D. Prof.
Little, T. R., M.B. Asst. Prof.
Filson, R. M., M.D., C.M. Fellow.

Pediatrics and Gyn. v. also Med.
Mylks, G. W., M.D. Prof.

Pharmacology
Asselstine, S. M., M D., C.M. Douglas Prof.

Psychiatry
Ryan, E., B.A., M.D., C.M. (Assoc. Prof. of Surg.) Prof.
Ross, W. K., M.D., C.M. Clin. Asst.

Surgery, v. also Psych.
Mundell, D. E., B.A., M.D. (Principles and Practice) Prof.
Austin, E. J., M.B., M.Ch. Prof. of Clin. S.
Gardiner, R. J., M.D., C.M. Asst. Prof.
Keyes, S. J., M.D., C.M. (Lectr. in Anæsthetics) Asst. Prof.
Bogart, I. G., M D., C.M. Lectr. in Clin. S.

AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE (Presbyterian). Principal and Prof. of Church Hist. and Hist. of Dogma, S. W. Dyde, D.Sc., D.D., LL.D. 5 other Profs.

GENERAL INFORMATION (v. also p. 267)

On the initiative of the Presbyterian Church a Royal Charter was granted in 1841 for the establishment of Queen's College, Kingston, funds being provided by grants from the Church and from the Govt. and by private benefactions. To the original Faculties of Arts and Theology were added, in 1854 Medicine, in 1907 Education, and in 1916, by amalgamation with the Univ. of the School of Mining founded in 1893, Applied Science. In 1912 the Faculty of Theology was separately incorporated as " Queen's Theological College " in affiliation with the Univ. but controlled entirely by the Presbyterian Church. In 1920 the Faculty of Educn. was discontinued, the students being transferred to the Teachers' Training College, Toronto.

The administration is vested in a Board of Trustees, composed of Chancellor, Principal and Rector, and representatives of the College, the Faculties, Graduates and Benefactors.

LIBRARY, 80,000 vols. (valuable Canadian Historical Section). MUSEUMS: Herbarium (35,000 spec.), Geol., Mineral., Ethnol. (rich N. American stone age collection). LABORATORIES, including important School of Mines buildings: Biol. (accommodating 220 students), Chem., Geol., Physics, Engineering, Mining, Metall., Mineral. OBSERVATORY with 6" telescope. HOSPLS. available for clinics, 2 general, 1 for insane. Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for Geol. study.

FACULTIES. Arts, Applied Science, Medicine. The Senate includes representatives of the Theol. College also.

DEGREE COURSES. 4 yrs. from Junr. Matricn., B.A., B.Sc. (in Engin.—Civ., Mech., Elec., Mining and Metall., Chem. and Metall.—Analyt. and Applied Chem., Mineral. and Geol., or Physics); 5 yrs., M.D., C.M.

Combined courses: 6 yrs., B.A. and B.Sc.; 7 yrs., B.A. and M.D.

First 2 yrs. of general Engin. course in Acadia, Alb., B.C., Mt. Al., or Sask. Univ. or of Chem. course in B.C. are accepted *pro tanto*; graduates of Roy. Milit. Coll., Kingston, admitted to 3rd yr. in Appl. Science.

For teachers in schools and others unable to pursue the full degree courses in Arts at the Univ. extra-mural instruction is provided by correspondence conducted by a staff of tutors. Attendance at the Univ. during at least one full session, or four full sessions of the summer school, must ordinarily be given (v. also pp. 41, 168, 216, 225).

HIGHER DEGREES. M.A. (1 yr. graduate course); M.Sc. (1 yr. course and 2 yrs. professional practice); Ph.D. (2 yrs.); D.Sc. (2 or 3 yrs.); D.P.H. (Doctor of Pub. Health); B.D. (3 yrs. course or its equivalent); B.Pæd. and D.Pæd. Examn. open to graduates in Arts or Science of a Univ. in the British Dominions holding Ontario Educn. Dept. Certif. (First Class or High School) or equivalent, and having 2 yrs. experience (D.Pæd., 3 yrs. experience and a summer course or its equivalent and thesis); Honorary LL.D., D.D.

DIPLOMAS. Banking (examns. held, by arrangement with Canadian Bankers Assocn., in many centres throughout Canada, admitting to A.C.B.A. and F.C.B.A.); Arts (3 yrs. extra-mural course); Testamur in Theology (3 yrs. course).

FEES (Class and Examn.) in Arts, $60 p.a.; Science, $105 to $125.

RESIDENCE. 2 Hostels for women. Board and lodging, $6.50 to $8.50 a week.

PUBLICATIONS. *Calendars* (by Faculties); *Queen's Quarterly*; *Queen's Univ. Journal.*

THE YEAR 1919–20

BENEFACTIONS. Late Chancellor Douglas, $500,000; Carnegie Fund, $250,000; other subscriptions to Endowment Fund (completed June 1919), $250,000; F. D. Ross, 2 Scholps. of $150 each, to be given annually; Mrs. D. B. Mactavish, $500 for Matricn. Scholp. (Judge Mactavish Memorial); J. Richardson, a stadium for athletics (G. Richardson Memorial); F. Carrel, $200 for athletics; friends of Corpl. W. J. Stewart, $1000 for Matricn. Scholp.

CHANGES IN ORGANIZATION, CURRICULA, ETC. Separate Dept. of Spanish and Italian opened; new courses in Commerce and Administration leading to degree of B.Comm. in 4 years; new system of studies in Arts; change of entrance requirements in Applied Science; concentration of training of teachers in Training College, Toronto, and discontinuance of Faculty of Educn. in Queen's.

HONORARY DEGREES CONFERRED. *D.D.*—Alex. Gordon, T. Eakin, C. G. Young. *LL.D.*—H. Godfrey (Drexel Inst., Pa.), T. F. Holgate (N.W. Univ.), A. C. M'Giffert and Prof. E. F. Scott (Union Th. Sem., N.Y.), H. M. Nimmo (of Detroit), E F. Smith (Univ. of Pa.), R. M. Wenley (Univ. of Mich.), F. J. E. Woodbridge (Columbia), F. D. Adams, F. Carrel, G. H. Duggan, Sir J. G. Garneau, Sir R. A. Falconer, J. Brebner, G. H. Ferguson, Gen. J. T. Fotheringham, L. de L. Harwood, Seager Wheeler.

OTHER DEGREES. B.A., 119; B.Sc., 44; M.A., 20; M.D., 55.

NUMBER OF STUDENTS. In Arts, 488, including 213 women; Science, 378; Med., 229; Educn., 54 (34 women); Extra-mural in Arts, 532 (231 women); in Banking Courses, 513; Summer School, 230 (104 women). Students from U.K., 5; Newf'd, 1; W. Indies, 2; U.S.A., 4; Smyrna (Internat. Coll.), 2.

RETIREMENTS. Deans J. Cappon and W. L. Goodwin; Profs. A. P. Knight and J. Third; Prof. L. W Gill, apptd. Dir. of Tech. Educn. for Canada; G. Y. Chown, Treasurer.

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VICE-RECTOR AND DIRECTOR OF DISCIPLINE—Prof. H. J. MACDONALD, M.A., S T L. Urb. Rome.

BURSAR—J. A. MCPHERSON.

LIBRARIAN—D. J. MACDONALD, Ph.D.

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Chemistry
McIntyre, R. K., M.A , B Sc Cath. Univ. of Amer. Prof.
Tompkins, M. N., B.A., B Sc. Tor. Assoc Prof

Classics [Assoc. Prof.
Smith, H. R. W., M.A. Ox.

Economics
Macdonald, D. J., M.A., Ph.D. Cath. U.A. Prof.

Education & Apologetics [Lectr.
Coady, M. M., Ph.D. St. Th. Rome, D.D. Urb. Rome

English Lit. and Modern Hist.
Bucknell, W. H., B A. Lond., M.A. Camb. Prof.

French
Raiche, J. F., M.A. Prof.

Gaelic Lang. and Lit.
Macdonald, A. T. Lectr.

Geology and Mineralogy
..... Prof.

Greek and Apologetics
The Vice-President Prof.

History, v. also Engl.
The Vice-Rector Asst Prof.

History, Ancient
Smith, H. R. W., B.A Ox. Prof.

Latin
The President-Rector Prof.

Law
Macdonald, A., M.A., Judge C.C. (Internat. L.) Lectr.
Wall, James M., Barrister (Contracts and Torts) Lectr.

Mathematics
McPherson, H., D.D. Prof.
Dolan, H., B.Sc. Asst. Prof.

Modern Languages [Asst. Prof.
Boyle, J., M.A. Louv. and Rome

Philosophy
Gillis, D. C., Ph.D., S.T.L. Urb. Rome Prof.

Physics
Nicholson, P. J., M.A., Ph.D. J. Hopk. Prof.

GENERAL INFORMATION (v. also p. 267)

The Univ. was authorized in 1866 to grant degrees, and was endowed with full Univ. powers in 1882. A new Charter was granted in 1909. The Univ. is under the control of the Roman Catholic Church, but there are no religious tests for entrance or for degrees.

LIBRARY, 22,000 vols. LABORATORIES: Biol., Chem., Geol., Phys.

COURSES. 4 yrs., B.A., B.Sc.; 2 yrs., Engineering (gives admission to leading technical colls. of Canada and U.S.A.); first year course in Law; graduate 1 yr. course for M.A. (v. also pp. 41, 270, 285, 298).

EXPENSES. Board, lodging, and tuition, $7.50 per week; private room rents from $1 per week.

PUBLICATIONS. *Calendar* (July); *Xaverian*, monthly.

THE YEAR 1919–20. *Benefactions*: Carnegie Corporation of New York, $50,000 for Chair of French; $500,000 subscribed for Endowment Fund in Aug. and Sept. 1920. *New Development*: Extension work project. *Number of students*: 162, including 24 women. Four students, prospective professors, doing graduate work in Oxford, McGill, and (2) Cath. Univ. in Washington.

UNIVERSITY OF SASKATCHEWAN, SASKATOON

VISITOR—Sir R. S. LAKE.

CHANCELLOR—Sir F. W. G. HAULTAIN, LL.D.

PRESIDENT—W. C. MURRAY, M.A., LL.D.

REGISTRAR—A. R. WEIR, B.A.

PROFESSORS, LECTURERS, ETC.

Accounting
Neilson, J., B.Acc. Prof.

Agriculture v. *infra*

Bacteriology and Pathology
Lindsay, W. S., O.B.E., B.A. Dal., M.B. Edin. Prof.

Biology
Thompson, W. P., M.A. Tor., Ph.D. Harv. Prof.
Dexter, J. S., Ph.D. Col. Lectr.
Cameron, A. E., M.Sc. Man., D.Sc. Aberd. Prof.
Fraser, W. P., B.A. Corn., M.A. Dal. Lectr.

Chemistry
Thorvaldson, T., B.A. Man., Ph.D. Harv. Prof.
Manning, R. J., B.A. Tor., D.Sc. Brist. Prof.
Basterfield, S. L., B.Sc. Lond., Ph.D. Chic. Prof.
Leavell, G., M.Sc. Chic. Instr.
Acason, Rosalie, A.R.C.Sc.I. Instr.

Classics
Sullivan, W. G., M.A. Dub. Prof.
Ramsay, W., B.A. Queen's Prof.
Bateman, J. V., M.A. Dub. Instr.

Economics
Swanson, W. W., M.A. Qu., Ph.D. Chic. Prof.
Elliott, J. C., B.A. Queen's Instr.

Education
The President, M.A. Edin., LL.D. Qu. and Alb. Lectr.
Wilson, R. A., Ph.D Qu. Lectr.

Engineering, Civil
MacKenzie, C. J., B.E. Dal., M.C.E. Harv. Prof.
Williams, G. M., B.S. Neb. Prof.
Underwood, J. E. Lectr.

English
Wilson, R. A., Ph.D. Queen's Prof.
Thomas, W. D., M.A. Ox. Prof.
Weir, A. R., B.A. Lectr. in E. and Maths.
Bayer, Jean G., M.A. Dal. Instr.
Carr, Ruth, M.A. Tor. Instr.

French [Prof.
MacDonald, J. A., M.A. Harv.
Muller, C. E., B.A. Lausanne, B.Sc. Geneva Prof.
Gallon, Geraldine, M.A. Chic. Instr.

German
Eaton, J. W., M.A. Dub. Prof.

Hebrew [Lectr.
Munro, M. F., M.A., B.D. Queen's

History
Underhill, F. H., B.A. Tor., M.A. Ox. Prof.
Morton, A. S., M.A. Edin. Prof.
Jones, Isobel, M.A. Tor. Instr.

Household Science
Rutter, Ethel Asst. Prof.
Patrick, Edith, B.A. Tor., M.A. Col. Instr.

Law [Dean & Prof.
Moxon, A., B.C.L. Ox.
Hebert, J. T., LL.B. Harv. Prof.
Maclean, D., LL B. Dal , B.Sc. Lectr.
Sibbald, A. S., M A Tor. (Interpretn.) Lectr.
Jordan, H. L., B.A. Tor., K.C. (Munic. L.) Lectr.
Estey, J. W., LL B. Harv. (Torts, etc.) Lectr.

Mathematics [Prof.
Ling, G. H., B.A. Tor., Ph D. Col
Dines, L. L., Ph.D. Chic. Prof.
Barnett, I. A., Ph D. Chic. Asst. Prof.

Natural History
Willing, T. N. Prof.

Pharmacy
Campbell, Alex. Prof.

Philosophy
Sharrard, J. A., M.A. Tor. Prof.

Physics
McGougan, A. G , B.A. McGill, Ph.D. Yale Prof
Harrington, E. B., Ph.D. Chic. Prof.
Code, F. L., B.Sc. McG. Instr.

Agriculture

Animal Husbandry
Shaw, A. M., B.S.A. Tor. Prof.
Winters, L. M., M.Sc. Ames. Asst.

Dairying
Potts, A. E., B.Sc. Edin., M.S.A. Prof.
Broby, S. P. Instr.

Engineering, Agric
Greig, A. R , B.Sc. McGill Prof.
Hardy, A E., B S.A. Ames. Prof.

Farm Management
Rutherford, W. J., B S.A. Tor. Dean & Prof.

Field Husbandry
Champlin, M., M.Sc. Sth. Dak. Prof.
Kirk, L. E., B.A., B.S.A. Asst. Prof.
Harrington, J. B., B.S.A Instr.

Horticulture
Ross, N. Special Lectr.

Poultry
Baker, R. K., B.A. Man. Prof.

Soils
Hansen, R., M.S. Ill. Prof.

Veterinary Science
Wright, N. Lectr.

Extra-Mural Work

Raynor, J. G., B.S.A. Man. Director.
Gordon, K. W., B.S.A. Man. Asst.
De Lury, Abigail Dir. of Home-makers Clubs.
Thompson, Esther, B.A. Man. Asst.

AFFILIATED COLLEGES, ETC.

EMMANUEL COLLEGE, estabd. 1879 for training native helpers at Prince Albert, transferred to its present site in the Univ. grounds in 1909. Principal, G. F. Trench, M.A. Courses for Testamur, Lic.Th., B.Th.

ST. CHAD'S, Regina (Church of England).

PRESBYTERIAN COLLEGE, Saskatoon. Principal, E. H. Oliver, M.A., Ph.D.

WESTMORE HALL LAW SCHOOL, Regina. Recognized for 1st and 2nd yrs. of LL.B. course.

COLLEGE OF PHYSICIANS AND SURGEONS; DENTAL COUNCIL; PHARMACEUTICAL ASSOCN.; ASSOCN. OF REGISTERED NURSES; VETERINARY ASSOCN.; ASSOCN. OF ARCHITECTS; INST. OF CHARTERED ACCOUNTANTS.

GENERAL INFORMATION (v. also p. 267)

Established by Act of the Provincial Legislature in 1907, the Univ. opened classes in Arts and Science in 1909 and took over the educational work of the Agricultural Dept. in 1910. These were developed under the name of "Colleges." Colleges of Law and Engineering were opened in 1913 and 1915. The site includes 1340 acres devoted to Agric. Education and Research, and a campus of 300 acres with a half-mile river frontage. The land, buildings, and equipment cost over $2,300,000.

Of the Board of Governors 5 members are elected by the Senate and 3 appointed by Govt.; the President is a member. The Senate (19 members elected by graduates, who also elect the Chancellor, and 13 *ex officio*, including the Minister of Education) regulates educational matters, the administration of which is controlled for the Univ. as a whole by an Academic Council and within each College by the Faculty. The President is a member of each of these bodies, and no appointment or dismissal is made without his recommendation. The maintenance of the Univ. is partially provided for by assignments of revenue and half of the Dominion grant in aid of Agric. education.

LIBRARY, 22,000 vols. LABORATORIES: Chem., Phys., Biol., Bact., Engin., Agric. Engin., Farm (830 a.), Agric. Exper. Fields (450 a.).

FACULTIES. Arts and Science (including Pharmacy and Accounting), Agric., Law, Engineering.

DEGREE COURSES. 4 yrs., B.A., B.Sc., B.Acc., B.S.P. (Pharmacy), B.S.A. (Agric.), B.E. (Engin.), LL.B. (3 or 4 yrs.); combined B.A. and B.S.A., 6 yrs. This Univ. has the sole right to confer degrees (other than Theol.) in the Province (v also pp 168, 323).

HIGHER DEGREES. Examn. open to Bachelors of 1 yr. standing—M.A., M.Sc., M S.A

DIPLOMAS AND CERTIFICATES. A 3 yr. course in Agric. leads to the "Associateship in Agric." A 1 yr. certif. course is given in Pharmacy.

FEES. Tuition for degree course in Agric., $36 p.a.; Engin., $45; Acc., $40 to $60; Pharm., $50; Arts and Sc., $3 to $6 each class.

SCHOLARSHIP FOR GRADUATES. One in Arts or Sc., $100 p.a.; one in Agric., $800 p.a.

RESIDENCE. Hostels for 200 men and 30 women. Board and room fees, $8 or $9 a week.

UNIV. EXTENSION. In Farming and Home Economics short courses by itinerant lecturers at local centres. Annual convention (one week) in winter; 3 weeks' course in summer for teachers and others at the Univ. Bulletins, fairs and shows.

PUBLICATIONS. *Calendar* (April); *Agric. Bulletins*; *Sheaf*.

THE YEAR 1919–20

BENEFACTIONS. Proctor Estate ranche of 560 acres; Bateman Mem. Prize, $1000; others, $250.

NEW BUILDINGS. Addition to Engineering completed, and Physics building nearly so—cost $450,000; Stadium, $7000; Greenhouses, $18,000.

OTHER DEVELOPMENTS. Seed farm purchased for increase and distribution of pure seed of improved varieties of cereals.

EXTENSION WORK in Agric. through 137 Agric. Societies, 18,000 members; Boys' and Girls' Clubs, 3000 members; 190 Women's Clubs, 5000 members.

NUMBER OF STUDENTS. Arts and Sc., 387 (including 165 women); Accounting, 31; Law, 36 (3 women); Engin., 16; Agric. (*a*) degree, 59, (*b*) Assoc'ship, 187; Pharm., 69 (3 women); summer school (*a*) degree, 80 (43 women), (*b*) teachers, 77 (59 women); returned soldiers, 364; evening (*a*) degree, 11, (*b*) others, 141; preparing for higher degrees, 4. 19 students went for further study to Toronto (Med. 10, Div. 4, Engin. 2, others 3); 3 to McGill; 2 to Oxford (Rhodes Scholars); 1 to London; 12 to U.S.A. (Harv. 2, Yale 1, Prince. 1, Mass. Inst. Tech. 1, Min. 1, Chic. 5, Calif. 1).

DEGREES, ETC., CONFERRED. B.A., 29; B.Sc., 4; LL.B., 5; B.S.A. and Assoc. in Agric., 14; Dipl. Phm., 45; M.A., 3; M.S.A., 1.

RETIREMENTS AND RESIGNATIONS. J. Bracken, Prof. of Field Husbandry (to accept Presidency of Manit. Agric. Coll.); H. J. Tisdale, Prof. of Animal Husbandry (to accept position with Woolgrowers' Co-operative Assocn.); K. Mackay, Prof. of Dairying (to accept position with Co-op. Creameries); J. L. Hogg, Physics; R. D. MacLaurin, Chem.; J. A. Mackay, Law; S. E. Greenway, Extension Work.

UNIVERSITY OF TORONTO

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Watt, J. C., M.A., M.D. Asst. Prof.

18 Assts.

Craigie, E. H., B.A. (Comp. A.) Lectr.

Anglo-Saxon

Keys, D. R., M.A. Prof. (C.).

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Architecture

Wright, C. H. C., B.A.Sc. Prof.

McConnell, A. W., B.A.Sc. Assoc. Prof.

Madill, H. H., B.A.Sc. Lectr.

3 Instrs.

Astrophysics [Prof.
Chant, C. A., M.A., Ph.D. Harv.
4 Assts.

Bacteriology v. Med.—Path.

Bio-Chemistry
Hunter, A., M.A., B.Sc., M.B., Ch.B. Edin. Prof.
Wasteneys, H., Ph.D. Col. Asst. Prof
Benson, Clara C., Ph.D. Assoc. Prof. of Physiol. Chem. in Faculty of Household Sc.
6 Fellows, Assts , etc.

Biology, v. also Histol., Zool.
Walker, E. M., B.A., M.B. Assoc. Prof.
Huntsman, A. G., B.A., M.B. (Marine B.) Assoc. Prof.
Clemens, W. A., M.A., Ph.D. Corn. Asst. Prof.
MacArthur, J. W., A.B. Ober., M.A. Wabash. Lectr.
14 Class Assts.

Botany [Prof.
Faull, J. H., B.A., Ph.D. Harv.
Thomson, R. B., B.A. Assoc. Prof.
Duff, G. H., M.A. Lectr.
8 Fellows and Assts.

Chemistry, v. also Bio-C., Electro-C., Med.—Path.
Lang, W. R , D.Sc. Glas. Prof.
Miller, W. L., B.A., Ph.D. Munich (Physical C.) Prof.
Kenrick, F. B., M.A., Ph.D. Leip. Prof.
Rogers, L. J., B.A.Sc. (Analyt. C.) Asst. Prof.
Funnell, W. S., M.A. Lectr.
Martin, W. H., B.A. Lectr.
Allan, F. B., Ph.D. (Organic C.) Prof.
Boswell, M. C., M.A. Harv., Ph.D. Assoc. Prof.
7 Assts.

Chemistry, Applied
..... Prof.
Ardagh, E. G. R., B.A.Sc. Asst. Prof.
Adams, C. S. Lectr.
An Instr., 2 Demrs.

Chemical Engineering
Bain, J. W., B.A.Sc. Prof.
Brownlee, H. J., M.A. Lectr.
2 Instrs.

Classics, v. also Hist., Philos.
Hutton, M., M.A. Ox., LL.D. (Greek) Prof. (C.).
Carruthers, A., M.A. (Gk. Lit. and Archæology) Prof. (C.).
Woodhead, W. D., B.A. Ox , M.A. Alta. (Gk. Lang. and Philos.) Asst. Prof. (C.).
Robertson, J. C., M.A. (Gk. Lang. and Philos.) W. E. H Massey Prof. (V.).
Langford, A. L., M.A. (Gk.) Prof. (V.).
Owen, E. T., M.A. (Gk.) Prof. (T.).
Adams, S. M., B.A. Lectr. (T.).
Morley, Susan G. Lectr. (T.).
Robertson, H. G., B.A. Lectr. (V.).
Carr, H., B.A. (Gk. and Hist. of Philos.) Prof. (M.).
Bell, A. J., B.A., Ph.D. Bres. Prof. of Comp. Philol. and Macdonald Prof. (V.) of Latin.
Macnaughton, J., M.A., LL.D. Qu. (Latin) Prof. (C.).
Smith, G. Oswald, M.A. Ox. (Latin) Assoc. Prof. (C.).
Dale, E. A., M.A. Ox. (Latin) Asst. Prof. (C.).
Duff, D., M.A., B.D. Edin. Lectr. (C.).
Hardy, W. G., B.A. (Latin) Lectr. (C.).
De Witt, N. W., B.A., Ph.D. Chic. (Latin Lit.) Prof. (V.).
Kirkwood, W. A., M.A., Ph.D. Harv. (Latin) Prof. (T.).
Woodcock, J. N., M.A. Oxon. (Latin) Prof. (T.).

McBrady, R. (Latin and French) Prof. (M).
Murphy, V. J. (Latin) Assoc. Prof. (M).
St. Clare, M. M., B.A. (Latin) Lectr. (M).

Cosmology
Cushing, D., LL.D. Prof. (M).

Drawing
Cockburn, J. R., B.A Sc. Assoc. Prof. of Descr. Geometry.
Smither, W. J., B A.Sc. Lectr.
Wright, W. J. T., B.A.Sc. Lectr.
Wilkes, G. H., B.A.Sc. Lectr
11 Demrs.

Economics v. Pol. Econ.

Education
Crawford, H. J., B.A Prof. and Headmr. of the Univ. Schools.
Sandiford, P., M.Sc Manc., Ph.D. Col. Prof.
Coombs, F. E., M.A. Asst. Prof.
Cornish, G. A., B A. Asst. Prof.
Crawford, J. T., B.A. Asst. Prof.
Ferguson, W. C., B.A. Asst. Prof.
Jones, Geo. M., B A. Asst Prof
Perry, S. W., B.A. Lectr.
Dunlop, W. J., B.A. Lectr.
Scarrow, A. N. Lectr.
16 Instrs.

Electro-Chemistry [Asst. Prof.
Burt-Gerrans, J. T., M.A., Phm.B.
A Demr.

Embryology v. Histol., Zool.

Engineering, v. also Drawing, Surveying
..... Prof.

Engineering, Commercial
Bennett, S. G., B.A.Sc. Lectr.

Engineering, Electrical
Rosebrugh, T. R., M.A. Prof.
Price, H. W., B.A.Sc. Prof.
Guest, W. S., B.A.Sc. Lectr.
Zimmer, A. R., B.A.Sc. Lectr.
3 Demrs.

Engineering, Mechanical, v. also Mech.
Angus, R. W., B.A.Sc. Prof.
Arkley, L. M., M.Sc. McG. Asst. Prof.
Traill, J J., B.A.Sc. Asst. Prof.
Parkin, J. H., B.A.Sc., M.E. Lectr.
1 Demr.

Engineering, Mining
Haultain, H. E. T., C.E. Prof.
King, J. T. D., B.A.Sc. Lectr.
Dyer, F. C., B.A.Sc. Lectr.

English, v. also Anglo-Saxon, Philos.
Alexander, W. J., B.A. Lond., Ph.D. J.H.U. Prof. (C.).
Wallace, M. W., B.A., Ph.D. Chic. Prof (C.).
Clawson, W. H., B.A. N.Br., M.A., Ph.D. Harv. Asst. Prof. (C.).
Waddington, Miss M. M., Ph.D. Lectr. (C.).
Edgar, O. P., B.A , Ph.D. J.H.U. Gooderham Prof. (V.).
Auger, C. E., B A. Assoc. Prof. (V.).
Simpson, H. C., B.A. Ox., M.A. Tor. & Harv. (E. Lit) Prof. (T.).
Hodgins, R C. A., M.A. Lectr. (T.).
Cartwright, Mabel, B.A. Lectr. (T.).
Pratt, E. J., M.A., B.D., Ph.D. Lectr. (V.).
Kennedy, W. P. McC., M.A. Ox., Litt.D. Dub. (Asst. Prof. in Hist.) Prof. (M.).
Margarita, M. M., B.A. Lectr. (M.).
2 Assts. (C.).

Ethnology v. Hist.

Forestry
..... Prof.
Howe, C. D., M.A. Ver., Ph.D. Chic. Assoc. Prof.
Millar, W. N., B.Sc. Penn., M.F. Yale Asst. Prof.
White, J. H., M.A., B.Sc.F., Ph.D. Asst. Prof.

French, v. also Classics, Germ.
Cameron, J. H., M.A. Prof. (C.).
Will, J. S., B.A. Prof. (C.).
De Champ, St. E., B. ès L. Lyons, O.I.P. Assoc. Prof. (C.).
Jeanneret, F. C. A., B.A. Asst. Prof. (C.).
Moraud, M., L. ès L., Dip. d'E. S. Asst. Prof. (C.).
McKellar, H. S., B.A. Lectr. (C.).
Ford, H. E., M.A. Prof. (V.).
De Beaumont, V., M.A. Col. Assoc. Prof. (V.).
Lacey, A., M.A. Lectr. (V.).
Rowell, Mary C., B.A. Lectr. (V.).
Kittredge, R. E. L., M.A. Harv. Prof. (T.).
Norton, A. A., M.A. Camb. Lectr. (T.).
Agnes, S. M., B.A. Lectr. (M.).
Pageau, J. E. Lectr. (M.).
Murray, W. H., B.A. Lectr. (M.).
5 Instrs. (C.), 1 Instr. (T.).

Geology, v. also Mineralogy
Coleman, A. P., M.A., Ph.D. Bres., F.R.S. Prof.
Parks, W. A., Ph.D. (Palæont.) Prof.
MacLean, A., B.A. Asst. Prof.

German, v. also Philol., Psych.
Needler, G. H., B.A., Ph.D. Leip. [Prof. (C.).
Fairley, B., M.A. Leeds, Ph.D. Jena Assoc. Prof. (C.).
Holt, G. E., M.A., Mus.B. Lectr. (C.).
Lang, A. E., M.A. Prof. (V.).
Addison, Margt., B.A. Lectr. (V.).
Robins, J. D., B.A. Lectr. (V.).
Young, A. H., M.A., D.C.L. Prof. (T.).
Scott, Miss L. C., M.A. (Reader in French) Lectr. (T.).
Perpetua, S. M., B.A. Lectr. (M.).

Hebrew [Prof. (T.).
Cosgrave, F. H., B.A. Dub.
Rollo, W., M.A. Aberd. Lectr. (T.).

Histology and Embryology.
Piersol, W. H., B.A., M.B. [Assoc. Prof.
Baillie, W. H. T., M.A., M.B. Lectr.

History, v. also English, Orient. Langs.
Wrong, G. McK., M.A. (H. and Ethnology) Prof.
Williams, R. H., M.A. Ox., A.M. Col. Assoc. Prof.
Smith, G. M., M.A. Ox. Assoc. Prof.
Wallace, W. S., M.A. Ox. Lectr.
2 Instrs.

History, Ancient
Milner, W. S., M.A. (Greek and Roman H.) Prof. (C.)
Duckworth, H. T. F., M.A. Ox. Prof. (T.)
Sissons, C. B., B.A. Nelles Prof. (V.).
Brown, A. Grant, M.A. Ox. Asst. Prof. (C.).
Cochrane, C. N., M.A. Ox. Asst. Prof. (C.).

History of Industrial Art
Currelly, C. T., M.A. Prof.

Household Science, v. also Bio-Chem. [Assoc. Prof.
Laird, Annie L., M.S. Drex.
Hickmans, Evelyn M., M.Sc. Birm. Lectr. in Home Management.
Hill, Hannah, B.S. Col. Lectr.
Ockley, Laura L., B.A. Lectr.
4 Instrs. and Assts.

Italian and Spanish
Buchanan, M. A., B.A., Ph.D. Chic. Prof.
Shaw, J. E., A.B., Ph.D. J.H.U. Prof.
Patterson, G. C., B.A. Lectr.
Lipari, A., M.A. Col., D.Litt. Rome Lectr.
1 Instr.

Law
Black, T. H., M.A. B.Sc., LL.B.

Glas. (Roman and Engl. L. and Jurispr.) Lectr.
Falconbridge, J. D., M.A., LL.B. (Comml. &Internat.L.) Lectr.
Chute, A. R., B.A., LL.B. (Federal Constit. & Comm. L.) Lectr.

Mathematics
De Lury, A. T., M.A. Prof.
Fields, J. C., B.A., Ph.D. J.H.U., F.R.S. Prof.
Mackenzie, M. A., M.A. Camb. and Tor. Prof.
Beatty, S., Ph.D. Asst. Prof.
Pounder, I. R., M.A. Asst. Prof.
2 Fellows and an Instr.

Mechanics
Loudon, W. J., B.A. Prof.

Mechanics, Applied
McGowan, J., B.A., B.A.Sc. Prof.
Gillespie, P., M.Sc., C.E. Assoc. Prof.
Young, C. R., B.A.Sc., C.E. Assoc. Prof.
Laing, A. T., B.A.Sc. Asst. Prof.
Mitchell, R. C., B.A.Sc. Lectr.
1 Demr. and 1 Fellow.

Medicine and Surgery v. *infra*

Metallurgy
Guess, G. A., M.A. Qu. Prof.
Loudon, T. R., B.A.Sc. (Ferro-M.) Assoc. Prof.
Milligan, W. E., B.A.Sc. Lectr.

Military Studies
Lang, W. R., D.Sc. Glas. Director.

Mineralogy [Prof.
Walker, T. L., M.A. Qu., Ph.D. Leip. (M. and Petrography)
Parsons, A. L., B.A. N.Y. Assoc. Prof.
Thomson, J. E., B.A.Sc. Lectr.
1 Asst.

Mining v. Engin.

Music
Vogt, A. S., Mus.D. Dean.
Fricker, H. A., M.A., Mus.B. (Choral and Orch. M.) Lectr.
Ham, A., Mus.D. (Church M.) Lectr.
Mouré, F. A. (Hist. of M.) Lectr.
Willan, H., LL.D. (Theory of M.) Lectr.

Oriental Lang., v. also Hebrew
Taylor, W. R., Ph.D. Prof. (C.).
Craig, J. A., M.A. McG., B.D. Yale, Ph.D. Leip. Prof. (C.).
Irwin, W. A., M.A., D.B. Chic. Lectr.
McLaughlin, J. F., B.A., D.D. (Langs. and Lit.) Massey Prof. (V.).
Hooke, S. H., M.A. Ox., B.D. Lond. (Spl. Lectr. in Hist.) Flavelle Prof. (V.).
Potter, W. A., M.A., B.D. Assoc. Prof.

Philology, v. also Classics
Horning, L. E., B.A., Ph.D. Gött. (Teutonic P.) Prof. (V.).

Philosophy, v. also Classics, Psych.
Hume, J. G., B.A., A.M. Harv., Ph.D. Frei. (Baden) (Hist. of P.) Prof.
Windle, Sir B., M.A., M.D., Sc.D., LL.D., F.R.S. Prof.
Robinson, T. R.,Ph. D. Asst. Prof.
Bott, E. A., B.A. Lectr.
Tracy, F., B.A., Ph.D. Clark (Ethics) Prof. (C.).
Lane, W. B., M.A., Ph.D. Wisc. (Ethics) Ryerson Prof. (V.).
Brown, W. T., M.A., Ph.D. Harv. (Ethics) Assoc. Prof. (V.).
Brett, G. S., M.A. Ox. (Univ. Prof. of P.) (Ethics and Ancient P.) Prof. (T.).
Powell, F. G. (Assoc. Prof. of Latin) Prof. (M.).
De Wulf, M., M.A., Ph.D., LL.D. Louv., M.R.A. Belg. and Madrid (Mediæval P.) Prof. (M.).
Meader, F. D., B.A. (Ethics) Prof. (M.).

Cushing, D , LL.D. (Cosmology) Prof. (M).
McCorkell, E. J., B.A., M.A. Cath.U.Am. (Assoc. Prof. of English, Lectr. in Ethics) Prof. of Social Ethics (M).
Bellisle, H. S., B A , M A Cath U Am. Assoc. Prof. (M).

Physics, v. also Astro-, Chem., Mechanics
McLennan, J C , O.B E., Ph D , D.Sc., LL.D., F.R.S. Prof
Burton, E. F., B.A. Camb., Ph.D Assoc. Prof.
Gilchrist, L., M.A , Ph.D. Chic. Asst. Prof
Satterly, J., M.A. Camb., D.Sc. Lond. Asst. Prof.
McTaggart, H. A., B A. Camb , M.A. Asst. Prof
27 Asst. Demrs and Class Assts.

Physics and Photography
Anderson, G. R., M.A. Assoc. Prof.
2 Demrs.

Physiology, v. also Bio-Chem.
MacLeod, J. J. R , M.B , Ch B. Aberd., D.P.H. Camb. Prof.
Redfield, A. C., Ph.D. Harv. Asst. Prof.
4 Fellows and a Demr.

Political Economy
Mavor, J., Ph.D. Prof.
MacIver, R. M., M.A., D.Phil. Edin , B.A. Ox. (acting Dir. of Social Service) Assoc. Prof.
Jackman, W., M.A. Asst. Prof.
Jackson, G. E., B.A. Camb. Asst. Prof.
Marshall, H., B.A. Lectr.
Manning, H. E., B.A. Lectr.
Cowan, D. R. G., B.A. Qu., M.A. Lectr.

Psychology [Director.
Clarke, C. K., M.D., LL.D.
Smith, W. G., B.A. Assoc. Prof.
Oliver, M. J., Ph.M. Cath.U.Am., B.A (Assoc. Prof. of German) Prof. (M.).
Bott, E. A., Ph.D. Lectr.
Pratt, E. J., M A., Ph.D. Lectr.
McDonagh, V. A., M.B. Lectr. (M.).
An Asst.

Religious Knowledge v. the Federated Univs. and Colls.

Social Service, v also Pol. Econ
McGregor, Agnes Director of Field Work.
12 Instrs.

Spanish v. Italian.

Surveying
Stewart, L. B., O L.S., D.L.S. (S. and Geodesy) Prof.
Treadgold, W. M., B.A. Assoc. Prof.
Crerar, S. R., B.A Sc. Asst. Prof.
Banting, E. W., B.A.Sc. Lectr.
Melson, J. W., B.A.Sc. Lectr.
1 Demr.

Zoology, v. also Anat.
Bensley, B A , Ph.D. Col. Prof.
Coventry, A. F., B.A Ox (Vertebrate Embryology) Asst.Prof.

Zymology [Assoc. Prof.
Speakman, H. B., M.Sc. Manch.

Medicine

Anæsthesia [Demr.
Johnston, S., B.A., M.D., C.M.
5 Assts.

Bacteriology v. Path.

Dental Anatomy [Demr.
Robinson, T. A., M.D., C.M. McG.

Gynæcology v. Obst.

Hygiene
Fitzgerald, J. G., M.B. Prof.
Defries, R. D., D.P.H., M.B. Lectr.
Cunningham, J. G., B.A., M.B. Lectr.

Medical Jurisprudence
Powell, N. A., M.D. Belle. N.Y., M.D., C.M. (Assoc. Prof. of Clin. Surg.) Prof.

Medicine and Clinical Medicine
Graham, Duncan A. L., M.B Prof.
Fotheringham, J. T., C.M.G., B.A., M.D., C.M., LL.D. Assoc. Prof.
Assoc. Profs. of Clin. Med. :
Chambers, G., B.A., M.B.
Dwyer, R. J., M.B., M.R.C.P. Lond (Ob)
Goldie, W , M B.
Thistle, W. B., M.D.
40 Clinicians.

Obstetrics and Gynæcology
Watson, B. P , M D , Ch.B. Edin., F.R.C S E. Prof.
Macdonald, A A., M.B. Assoc. Prof
McIlwraith, K. C., M.B. Assoc. Prof,
Marlow, F. W., M.D., C M F.R.C.S.Eng. Assoc. Prof.
Hendry, W. B., D.S.O., B.A.,M B. Assoc. Prof.
1 Associate, 5 Demrs. and Asst. Demrs

Ophthalmology
MacCallum, J. M., B A , M D. Prof. of Oph.
Burnham, G. H., M.D., F.R C S.E. Prof.
6 Assts.

Oto-Laryngology
Wishart, D. J. G , B.A , M D., C.M. McG. Prof.
Goldsmith, P. G., C.B.E., M.D., C.M. Assoc. Prof.
Royce, G., B.A., M.B Assoc. Prof.
10 Assts.

Pathology and Bacteriology
Mackenzie, J. J., B A., M.B. Prof.
Maitland, H. B , M B. Lectr.
7 Demrs. and Assts. and 1 Fellow.

Pathological Chemistry
..... Prof.
Imrie, C. G., M.D. Lectr.
2 Demrs , an Asst. and a Fellow.

Pediatrics
Brown, A , M.B. Assoc. Prof.

Pharmacy and Pharmacology
Henderson, V. E., M.A., M.B. Prof.
Brodey, A , M A., M.B. Demr.
1 Instr. and 4 Assts.

Psychiatry, v. also Psychology
Clarke, C K , M.D , LL.D. Prof.
Beemer, N. H., M.B. Extra-mural Prof. of Mental Diseases.
Forster, J. M., M.B. Assoc.

Surgery and Clinical Surgery
Cameron, I. H., M B., LL.D., F.R C S Eng. Prof.
Primrose, A., C.B., M.B., C.M. Edin. Prof of C.S.
Assoc. Profs. of Clin. Surg. :
Bingham, G. A., M D., C.M. (C.S. and Clin. Anat.).
Bruce, H. A , M D , F R C S Eng.
Hay, S. M., M.D
McKeown, P. W. H., C.B.E., B.A., M.B.
Starr, F. N G., C.B.E., M B.
Starr, C L., M.B. (Orthopædics).
7 Associates, 31 Demrs. and Assts.

Therapeutics
Rudolf, R D , C.B.E., M.D , C.M., F.R C P Lond Prof.
Ross, G. W., B A , M.D., M.R.C.P. Lond. Demr. in T. and in Clin. Med., Acting Head of Dept.
4 other Demrs., v. also Anæsth.

COLLEGES OF THE UNIVERSITY

UNIVERSITY COLLEGE. Principal—M. Hutton, M.A., LL.D.; Registrar—F. C. A. Jeanneret, B.A.

VICTORIA COLLEGE. The Faculty of Arts of Victoria Univ., v. *infra*.

TRINITY COLLEGE. The Faculty of Arts of the Univ. of Trinity College, v. *infra*.

ST. MICHAEL'S COLLEGE. Superior—Prof. H. Carr, B.A.; Bursar and Registrar—Prof. F. D. Meader, B.A. Other Teachers: A. E. Hurley, D.D. (*Religious Knowledge*), and the Profs., etc., marked (M.) in above list.

FEDERATED COLLEGES

ST. MICHAEL'S, v. *supra*.

KNOX COLLEGE and WYCLIFFE COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*): (1) Knox—J. Ballantyne, B.A., D.D.; R. Davidson, Ph.D.; A. Gandier, M.A., D.D.; W. Manson, M.A.; J. D. Robertson, M.A., D.Sc. (2) Wycliffe—W. T. Hallam; E. A. McIntyre, M.A., B.D.; H. W. K. Moroll, M.A.; T. R. O'Meara, B.A., LL.D.

AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE, GUELPH. President—G. C. Creelman, B.S.A., LL.D. 14 Profs., 3 Assoc. Profs., and 21 Lectrs. 17 Demrs. and Instrs.

ROYAL COLLEGE OF DENTAL SURGEONS, TORONTO. President—W. M. McGuire, D.D.S.; Secy.-Treas.—W. E. Willmott, D.D S.; Registrar—A. D. A. Mason, D.D.S. Faculty—22 Profs.; 6 Assoc. Profs.; 3 Lectrs.; 6 Clinicians; 31 Demrs.

ONTARIO COLLEGE OF PHARMACY, TORONTO. President of Council—Alex. Stewart; Registrar-Treasurer—W. R. Graham. Faculty—4 Teachers.

ONTARIO VETERINARY COLLEGE, TORONTO. Principal—C. D. McGilvray, V.S., M.D.V.

ALBERT COLLEGE, BELLEVILLE; COLUMBIAN METHODIST COLLEGE, NEW WESTMINSTER; ONTARIO LADIES' COLLEGE, WHITBY; ST. HILDA'S COLLEGE, TORONTO (the Women's Residence for Trin. Coll.).

GENERAL INFORMATION (v. also p. 267)

An appropriation of 500,000 acres of land for the support of 4 grammar schools and a Univ. in Upper Canada was made in 1798, and a Royal Charter was granted in 1827 for a "King's College" with the privileges of a Univ., but it was not until 1843 that the College was inaugurated. In 1849 its title was changed to The University of Toronto. It was re-organized in 1853 as an examining and degree-conferring body on the model of the Univ. of London. In 1887 it again became a teaching body, the Faculties of Medicine and Law which had been abolished prior to the re-organization of 1853 were revived; the Arts work was divided between the Univ. and Univ. College, and provision was made for the admission of other institutions as Federated Colleges. Victoria, Trinity, and St. Michael's Colleges became integral parts of the Univ. in 1892, 1904, and 1907 respectively.

LIBRARY, 160,580 vols. and 52,480 pamphlets. The Annual Grant for purchase of books is $16,000. 60 periodicals subscribed for and many others received. The (Science) Library of the Roy. Can. Inst. is housed in the same building. MUSEUMS: Anat., Geol., Mineral.; Trinity has a Nat. Hist. and Archæol. Museum of its own; the Agric. and Vet. Colleges, Knox, and the School of Dentistry have each one. The Ontario Provincial Museums of Archæol. and Nat. Hist. are in the vicinity. LABORATORIES: very extensive in all depts. of Applied Science and Engineering as well as Anat., Biol. (600

students), Chem., Geol., Household Sc., Path., Physics, Physiol.; described in *Bulletin* for Graduate Students. BOTANICAL GARDEN. OBSERVATORY. HOSPITALS available for Clinics: General, 1300 beds; Children's, 250; St. Michael's, 400; Western, 120.

FACULTIES. Arts, Medicine, Applied Science and Engineering (Depts.—Archit., Civil E., Mining E., Mech. E., Chem. E., Elec. E., Metall. E.), Education, Forestry, Household Sc., Music.

UNIVERSITY MATRICULATION BOARD. As a result of a conference of representatives of the Univs. of Toronto, Queen's, McMaster, and Western Univ., London, held in Dec. 1908, the Senates of these Univs. created a Board to conduct and control their annual Matricn. examns. The Dept. of Educn. of Ontario agreed to provide the same machinery for holding these examns. as it employs for the Departmental examns., and the Registrar of the Dept. is Secy. of the Board. In connexion with the Pass Junior Matricn. examn. a report signed by all members of the staff of the school concerned as to the standing of their candidates is taken into account in determining the results.

The Univs. of Ontario annually confer with McGill on the subject of Matricn.

The subjects of Junior Matricn. are (1) Latin, (2) English, (3) History, (4) Maths., (5) Greek, (6) French, (7) German, (8) Physics and Chemistry. For Matricn. in Arts it is necessary to pass in (1) to (4) and any two of (5) to (8). In certain cases foreign students may substitute their native language for Greek or French or German.

For Matricn. in the Univ. of Toronto in Med. the requirements are the same as for Arts; in Applied Sc. or Forestry—(2), (3), (4), and any three of (1) and (5) to (8) [and in Appl. Sc. honour standing in (2), (4), and one of (1), (5), (6), (7)]; in Music—(2) and any two of (1), (5), (6), (7).

Minimum age for admission to the Faculty of Arts, 16 (non-matricn. students, 19); Law, 21; Med., 16; Appl. Sc., 17; Educ., 19; Forestry, 16.

DEGREE COURSES. 4 yrs.—B.A., B.A.Sc., B.Sc. (Med.), B.Sc.F., B.S.A. (at Guelph), D.D.S., B.V.S., Phm.B.; 3 yrs.—Mus.B.; 6 yrs.—M.B. Combined courses: B.A. and B.Sc.F.—6 yrs.; B.A. and M.B.—7 yrs.; M.B. and D.D.S.—7 yrs.; M.B. and B.Sc.(Med.)—6 yrs.

Certificates of having passed certain examns. of the standard of the Senior Oxford and Cambridge Local may enable a student to enter at the second year the B.A. Pass course (but not an Honours course except in Polit. Sc. or Philos.), provided he is not less than 17 (if not matriculated, 20) yrs. of age.

Honour courses for the B.A. are provided in Household Science and in Science for teachers, there being no separate Household Science degree, and the B.Pæd. being a post-graduate degree.

The first 2 yrs. of the Law course may be taken in Arts in the Univ., the 3 remaining yrs. being taken at Osgoode Hall.

The B.Sc. (Med.) may be obtained by Med. students who, after the 4th or subsequent year of Med. study, having maintained therein a prescribed standard of proficiency, spend a year in courses in the introductory Med. sciences, and show facility in reading one modern language besides English.

A student who has already graduated in the Faculty of Arts, Med., or Science of a Canadian or other recognized Univ. may complete the course in Dentistry in 3 yrs. instead of 4; and persons holding the L.D.S. of one of the Med. authorities of Great Britain or the B.D.S. degree of Melbourne may be admitted in the Dept. of Dentistry without further examn., and to the final D.D.S. examns. on completing one full session at the School of Dentistry of the Royal Coll. of Ontario.

Higher Degrees. M.A., obtainable by approved course of graduate study

extending over 2 yrs. or, in the case of a B.A. in an Honours course, 1 yr.; Ph.D., open to a graduate in Arts (or, on special conditions, another Faculty) of this or another recognized Univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required.

The M.D. is obtainable by thesis embodying results of original research at least 1 yr. after graduating as M.B. The D.P.H. course (for Med. graduates) covers 11 months—1 winter and 1 summer session.

The M.A.Sc. may be obtained by a B.A.Sc. of this Univ. who pursues a course of advanced study in the Faculty for 1 yr., presents a satisfactory thesis, and passes such examns. as may be prescribed.

The professional degrees, C.E., M.E. (Mining or Mech.), E.E., Chem.E. are open to candidates who, after obtaining the B.A.Sc. or diploma of the Faculty, spend 3 yrs. in the actual practice of one of these branches of engineering, present a satisfactory thesis, and pass examns. The F.E. may similarly be obtained by a B.Sc.F.

The B.Pæd. and D.Pæd. are open to graduates in Arts or Science of any British Univ. who hold a 1st class or High School Asst.'s certif. of Ontario or its equivalent, and pass, after 2 yrs. (D.Pæd.—3 yrs.) successful experience in teaching, prescribed examns. For the D.Pæd. a thesis is also required, and the candidate must have attended a summer course (or its equivalent) in each subject of examn.

The Mus.D. is open to a Mus.B. of this or another Univ. of 3 yrs.' standing.

The Univ. publishes annually an announcement of *Graduate Courses*. *All communications on the subject must be addressed to the Board of Graduate Studies.*

Recognition by Other Univs. (v. pp. 41, 168, 216, 225, 253).

Training of Teachers. Courses are provided for Teachers' certificates of several grades, including the Household Science and the Physical Culture Teachers'. The Educn. Dept. of Ontario grants certifs. on the results of Univ. examns., entitling the holders to teach in the Public Schools. All teachers for the upper grades of Public and High Schools and Colls. must spend at least 1 yr. in the Faculty of Educn. of Toronto or Queen's.

Fees. Students proceeding to the B.A. and enrolled in one of the Colleges of the Univ. attend lectures of Univ. Profs. and Lectrs. in the Faculty of Arts without payment of fees except for laboratory supplies. The College Fees, which entitle students to attend lectures in their respective Colleges, are about $40 p.a. Medical students pay for tuition, laboratory supply, hospital and annual examn., $150 p.a. Certificate courses in the Faculty of Education cost from $15 to $25 p.a. Forestry, $80 p.a. Applied Science and Engineering, $100 to $120 p.a. D.P.H., $150.

Scholarships, etc., open to graduates include $120 for 2 yrs. for Divinity course in Trinity Coll.; Fellowship in Philos., $300; $1000 Prize for Scientific research or invention, open to all Canadians; $500 Scholarship in Medicine; $500 Fellowship in Anatomy; $750 Fellowships (one or more, each tenable for 3 yrs.) for research in Medicine; and others.

Residence. University Houses accommodate 150 men, rent $4 per week; Univ. Coll. Hall, Residence and board for women (133), $7 per week; Victoria Coll. Halls for 132 men, about $8 per week, and 111 women, $200 to $300 p.a.; Trinity Coll. provides for 100 men and 50 women; St. Michael's (R.C.) has also Residences for men and women.

Publications. *Calendars* of the several Faculties, April and May; *Graduate*

Studies Bulletin; *Medical Bulletin*; *Univ. Monthly*; *Can. Historical Review*; *Univ. Studies*; Students' Mags.—*'Varsity*, *Torontonensis*, *The Rebel*; *Annual Report*, including list of Publications by members of Staff.

THE YEAR 1919–20

BENEFACTIONS. Massey Foundation, Hart House, v. *infra*; Sir J. and Lady Eaton, $500,000 (first instalment); Mrs. Kilgour, $10,000 for Macrae Scholps.; $335,000 for War Memorial; Sir E. Osler, $1000 for special investigations in Pathology and $500 for Graduate Fellowships; Col. R. W. Leonard, $500 for Grad. Fellowships; Sir J. Flavelle, $1000 for same in Oxford; T M. Porter, $2000 for Scholps.; W. Ramsay Bequest, $1000 for Scholp. in Physics; Can. Oral Prophylactic Assocn., $1500 for Dental Research; Imp Oil Co, $1000 for Research; Govt. grants, $527,000 and $400,000 to cover deficit.

SPECIAL EVENTS. Visits of the Prince of Wales, Cardinal Mercier, and Admiral Jellicoe; Presentation by Massey Foundation, and formal opening by Duke of Devonshire of Hart House.

NEW BUILDINGS. Hart House, comprising Students' and Faculty Unions, Dining Hall, Gymnasium, Theatre, and Offices for Undergrad. Assocns. for use of men; Residences purchased for Depts. of Pol Sc. and Med. and Women's Residence; under construction, Elec. Engin. building, $350,000, Univ. Press, $65,000.

CHANGES IN CURRICULA, ETC. Course for B.Com. established; Degree of B.Sc. (Med) estabd. for students completing 4th yr in Med. Faculty; M.B. course extended from 5 to 6 yrs.; special 5 yr. course in Med. for returned soldiers; Applied Sc. Matricn. requirements raised by addition of Hon. Matricn. standing in Engl. and one of Gk., Lat., Ger., French, Spanish; Physical Training made compulsory for 1st and 2nd yr. undergrads.

UNIVERSITY EXTENSION WORK. Enrolment, 168, including summer session, 35; Teachers' classes, 44; Correspondence courses, 65; Tutorial classes, 54; Lectures, 14.

NUMBER OF STUDENTS. Total registered in 1919–20, 5237. Full-time, preparing for first degrees: Arts, 1741; Med., 1082; Applied Sc., 805; Forestry, 46; Music, 12; Dental students, 189; Education, 423; Vet., 63; Social Service, 355; in graduate courses, 169; occasional, 145. Women included in above: Univ. Coll., 447; Victoria, 212; Trinity, 49; St. Michael's, 66; in graduate courses, 51; Med., 81; Education, 212; Music, 9; Social Service, 343; others, 44. Students from other provinces of Canada, 368; from other countries, 136.

HONORARY DEGREES CONFERRED. LL.D.—The Prince of Wales, Cardinal Mercier, Maj.-Genls. Gwatkin and Fotheringham, Br.-Genl. Mitchell, Prof. McLennan, Sir A. W. Currie, Sir C. V. F. Townshend, B. F. Fernow, A. M. MacMechan, C. A. Mastan, W. Pakenham, F. H. Severance, H. Sproatt. D.Sc.—H. A. Bumstead, G. H. Duggan, E. C. Jeffrey. Mus.D.—H. Willan. D.V.Sc.—J. G. Rutherford M.H.Sc. (Household Sc.)—Edith C. Rayside. M.A.—Major T. W. MacDowell.

OTHER DEGREES. B.A., 271; M.B., 74; D.D.S, 116; Phm.B., 88; B.V.Sc., 5; B.A.Sc, 93; B S.A., 58; B.Sc.F. 4; LL.B., 2; M.A., 42; others, 22.

DEATH. Prof. R. J. Dwyer, Jan. 26, 1920. RETIREMENTS. Profs. J. A. Amyot, C. H. Burnham, N. A. Powell, A. M. Baines, and H. T. Machell; Graham Campbell.

UNIVERSITY OF TRINITY COLLEGE, TORONTO

CHANCELLOR—J. A. WORRELL, K.C., M.A., D.C.L.

VICE-CHANCELLOR AND PROVOST—T. C. S. MACKLEM, M.A., D.D., LL.D., D.C.L.

DEAN OF RESIDENCE—Prof. A. H. YOUNG, M.A., D.C.L.

REGISTRAR—Prof. W. A. KIRKWOOD, M.A., Ph.D.

LIBRARIAN—Prof. R. E. L. KITTREDGE, M.A.

PRINCIPAL OF ST. HILDA'S COLLEGE FOR WOMEN—Miss M. CARTWRIGHT, B.A.

PROFESSORS, LECTURERS, ETC., IN DIVINITY

[*See also* the consolidated list under the Univ. of Toronto, in which appear the names of Profs. and Lectrs. on the Staff of Trin. Coll., marked (T.), under the heads Class., Engl., Fr., Ger., Heb., Hist., Philos.]

Apologetics
..... Spl. Lectr.

Church History
Morris, H. C. S., M.A. Ox. Lectr.

Canadian Church History
Young, A. H., M.A., D.C.L. Spl. Lectr.

Divinity
The Provost Prof.*
Rollo, W., M.A. Aberd. Prof.†
Duckworth, H. T. F., M.A. Ox. Lectr.*
Seager, C. A., M.A., D.D. Lectr.†

Homiletics and Pastoral Theology
Fotheringham, J. B., B.A. Spl. Lectr.

Old Testament Prof.*
Cosgrave, F. H., M.A., B.D. Dub.

Pastoral Theology
..... Hon. Lectr.

Trinity College, established in connexion with the United Church of England and Ireland in 1852, was in 1853 granted a Royal Charter as a University. It is federated with the Univ. of Toronto and, in its Faculty of Arts, forms an integral part of it, but in the Faculty of Divinity remains entirely independent and itself confers degrees. Telegraphic address—Trincoll, Toronto.

LIBRARY, 13,000 vols. MUSEUM, Nat. Hist.

COURSES. L.Th.—4 yrs.; Hons. or Pass B.A. of Toronto and Divinity Testamur—5 or 6 yrs., or, with Hons. in Theol., 7 yrs. Candidates for the B.D. or D.D., if resident outside the Eccl. Provinces of Canada, must be graduates in Arts of 3 yrs., or ordained clergymen of 5 yrs. standing. The D.D. is open to B.D.'s of 5 yrs. standing.

* † Also Prof. (*), Lectr. (†), in the Faculty of Arts.

A SCHOLARSHIP of $120 p.a. for 2 yrs. is open to students who have taken an Arts course in the Coll.

THE YEAR 1919–20. Two houses were acquired for men's and women's residences. *Number of Students.* Undergraduates in Arts, 137, including 58 women; in Div., 13; special women students in Div., 2; graduate students in Div., 3. *Hon. Degree* of D.D. conferred on Canon H. H. Bedford Jones. *Retirement.* H. P. Spring, to be Prof. in Wooster, U.S.A.

PUBLICATIONS. *Yearbook* (July); *Calendar* (May); *Review*, monthly, $1.50; *St. Hilda's Chronicle*, $1.

VICTORIA UNIVERSITY, TORONTO

PRESIDENT—R. P. BOWLES, M.A., D.D., LL.D
REGISTRAR—A. L. LANGFORD, M.A.
LIBRARIAN—A. E. LANG, M.A.
Telegraphic Address . Vicollege, Toronto.

PROFESSORS AND LECTURERS

[*See also* in the consolidated List under Toronto, names marked (V.).]

Homiletics, Past. Theol , Ch. Hist.
Johnston, A. J., B.A. M. Cox Prof

New Testament, Greek, etc
Michael, J. H., M.A. Wales.
G A Cox Prof.

Public Speaking
Greaves, W. H.. M.A. Bos Prof.

Religious Pedagogy
Langford, F. W , B.A. Prof.

Sociology [Prof.
MacMillan, J W , B.A , D D Manit.

Systematic Theology
The President, M A , D.D. Wes., LL.D. Mt A & Tor.
Ed. Jackson Prof.

GENERAL INFORMATION

The Upper Canada Academy was established by Royal Charter in 1836 in connexion with the Methodist Church in Canada. Its name was changed in 1841, when power was obtained to grant degrees in Arts, Theol., Med. and Law, to " Victoria College," and in 1884 to " Victoria University." In 1890 it was federated with Univ. of Toronto, and its Arts Faculty became a College thereof, but it still confers degrees in Theology.

LIBRARY. Special features—Canadian verse and Tennysoniana (C. C. James's collections), Methodism in Canada, Education in Ontario.

COURSES. 4 yrs. in Languages, Anc. Hist. and Ethics for B.A., both Pass and Hons. ; 3 yrs. for B.D., the 2nd and 3rd yrs. being subsequent to graduation in Arts; 3 yrs. conference course for probationers for the Ministry following a 2 yrs. course taken on circuit ; 3 yrs. conference course for graduates.

HOSTELS for 120 men and 125 women students.

PUBLICATIONS. *Calendar* (May) ; *Bulletin* (July) ; *Acta Vict.*, a students' monthly.

THE YEAR 1919–20

BENEFACTIONS. W. A. Dafoe, $1000 ; Mrs. T. W. Jolliffe, $1000 ; and Rev. and Mrs. R. N. Burns, $1000 for Scholarships.

NUMBER OF STUDENTS. Full-time, preparing for B.A., 451, including 203 women ; M.A., 5 (1 woman) ; B.D. or Dipl.Th. (graduates), 30 ; Dipl.Th. (non-grads.), 39 ; occasional, 20 (8 women). Summer courses in Theol., 52 ; M.A., 4, 5, 3 ; B.D. or Dipl.Th. (graduates), 23, 16, 9 ; Dipl.Th. (non-grads.), 21, 17, 11 ; occasional, 17, 10, 15.

HONORARY DEGREES. D.D.—A. Brown, O. L. Kilborn, C. E. Manning.

RETIREMENT. F. H. Wallace, Dean of Faculty of Theol.

WESTERN UNIVERSITY OF LONDON, ONTARIO

(No returns received since Feb. 1920.)

CHANCELLOR—Hon. W. J. ROCHE, M.D., LL.D., M.P.

PRESIDENT—.....

CHAIRMAN OF THE BOARD OF GOVERNORS—Major A. T. LITTLE.

REGISTRAR—Prof. K. P. R. NEVILLE, M.A., Ph.D.

BURSAR—W. WAUGH, M.D., LL.D.

LIBRARIAN—MARJORIE ROSS, B.A.

PROFESSORS, LECTURERS, ETC.

Anatomy

McKibben, P. S., B.S. Granv., Ph.D. Chic. Prof.
Schaef, H. E., M.D. Instr.
Campbell, F. J. H., M.D. Instr.

Biology

Robertson, A. D., B.A. Tor. Prof.
Hart, N. C., M.A. Tor. Lectr.

Chemistry [Prof.

Slack, J. A., Ph.C. Mass. C. Ph.
Best, S. N., Ph.C. Mass. C. Ph. Lectr.

Classics [Prof.

Fox, W. S., M.A., Ph.D. J.H.U.
Neville, K. P. R, M.A. Harv., Ph.D. Corn. (C. & Hist.) Prof.
Auden, H. W., M A. Camb. Lectr.

Elocution

Hannah, R., B.A. Instr.

English

Tamblyn, W. F., M.A. Tor., Ph.D. Col. Prof.
Blampin, W. E., M.A. McG. (E. & Hist.) Lectr.
Brock, G. M., B.A. Tor. Lectr.

French and Italian

Shanks, L. P., Ph.D. Corn. Prof.

French and Spanish [Lectr.

Meras, E. A., B.A. Coll. City N.Y.

Geology

Perkins, E. H., Ph.D. Yale Prof.

German

James, N. C., B.A. Tor., Ph.D. Halle Prof.

Hebrew [Prof.

Waller, C. C., M.A. Camb., D.D.

History, v. also Class. and Engl.

Wood, L. A., B A. Tor., B.D. Mont. (Presb.), Ph.D. Heid. (H. and Pol. Sc.) Prof.

Mathematics

Patterson, W. J., M.A. Qu. Prof.

Philosophy

Robinson, B H., M A. Tor. Lectr.

Physics [Prof.

Dearle, R. C., B.A., Ph.D. Tor.

Physiology

Miller, F. R., M.A., M.B. Tor., M.D. Munch. Prof.
Watson, E. M., M.D. Instr.

Political Science, v. also Hist.

Perrin, F. E., B.A. Tor. Lectr.

Psychology [Lectr.

Sage, G. B., M.A. Trin., D.D.

Medicine

Anæsthesia [Assoc. Prof.

Alexander, Norman B., M.D.

Eye, Ear, Nose, Throat
Thompson, S., M.D. Assoc. Prof.

Medical Jurisprudence
Duncan, A. S., M.D. Lectr.

Medicine
Macgregor, John A., M.D. Prof.
Campbell, J. B., M.A., M.D. Assoc. Prof.
Graham, A., M.D. Assoc. Prof.
Brown, C. E., M.D. Instr.
Spence, E., M.D. Instr.
Hale, G. C., M.D., C.M. McG. Instr.
Craig, D. A., M.D., C.M. McG. Instr.
Harris, C. A., M.D. Instr.
Bean, S. J. T., M.D. Instr.
Fisher, S. M., M.D. Instr.

Obstetrics and Gynæcology
Meek, H., M.D. Qu. Prof.
Ferguson, R., B.A. Tor., M.D. Assoc. Prof.
Stevenson, W. J., M.D. Asst. Prof.
Black, H. H., Phm.B., M.D. Asst. Prof.
Williams, E. L., M.D. Asst. Prof.
Clegg, F. R., M.D. Lectr.

Pathology
Luney, F. W., M.D. Assoc. Prof.
Childs, J. R. N., M.D. Assoc. Prof.
Foucar, H. O., B.A., M.D. Instr.

Pediatrics
Tillmann, W. J., M.D. Assoc. Prof.
Lindsay, J. C., M.B. Tor. Asst. Prof.
Ferguson, J. I., M.D. Instr.

Pharmacology
Crane, J. W., M.B. Tor. Prof.
Jepson, G. L., M.D. (Instr. in Med.) Lectr.
Aitken, G. W. A., M.D. (Instr. in Med.) Instr.
McKee, Marjorie Asst.

Psychiatry [Assoc. Prof.
Robinson, W. J., M.B. Tor.
Crawford, C. M., B.A., M.D. Qu. Assoc. Prof.

Public Health
Downham, W. S., M.D. Lectr.

Surgery [Prof.
Williams, H., M.D., F.R.C.S. Eng.
Seaborn, E., M.D., F.R.C.S. Assoc. Prof.
Hodgins, E. L., M.B. Tor., F.R.C.S. Eng. Assoc. Prof.
McNeill, G., M.D. Assoc. Prof.
Wilson, J. C., M.D. Lectr.
Ramsay, G. A., M.D. Lectr.
Davis, E. G., M.D., C.M.G. Lectr.
Campbell, F. J. H., B.A., M.D. Instr.

AFFILIATED INSTITUTIONS

HURON COLLEGE. Principal, Prof. of Div. and Hebrew, Rev. C. C. Waller, M.A. Camb. and McG., D.D. Other teachers not on staff of the Univ., Rt. Rev. Bp. of Huron, D.D., Lectr. in Bib. Exeg.; F. Anderson, M.A. Ox., Prof. of Ch. Hist., Dean L. N. Tucker, M.A., D.C.L., and R. E. Charles, B.A., Lectrs.

ASSUMPTION COLLEGE. President, Prof. of Greek, T. J. Muckle, M.A. Eleven other Profs. of Arts subjects.

URSULINE COLLEGE. President and Prof. of English, Mother Carmel. Five other Profs. of Arts subjects.

CONSERVATORY OF MUSIC, BRANTFORD, ONT. Principal, W. Norman Andrews, Dip. Leip.

ASSOCIATED INSTITUTION

INSTITUTE OF PUBLIC HEALTH. Maintained by the Province; a Faculty of the Univ. Director, Prof. J. C. Slack.

GENERAL INFORMATION (v. also p. 267)

Incorporated by an Act of the Provincial Legislature in 1878 as a College in connexion with the Church of England, the Univ. has become, under the provisions of an amending Act of 1908, absolutely undenominational in its government, which is under provincial and municipal control.

FACULTIES. College of Arts, Medical School, Public Health.

DEGREE COURSES. 4 yrs. (from Junr., Matricn.), B.A., 1 yr. (graduates) M.A.; 6 yrs., M.D. Attendance on part of the classes may be dispensed with by the Senate, but all students must have attended lectures in the Univ for at least 1 yr. before they can graduate.

PUBLICATIONS. *Calendar* (May); *Western Univ. Gazette*, monthly during term.

THE YEARS 1918–20

BENEFACTIONS. Ontario Govt., $20,000 each for Coll. of Arts, Med. Sch. Inst. Pub. Health; City of London, $15,000 for Coll. of Arts; Barnet Library.

NUMBER OF STUDENTS (1918–19 and 1919–20). Medicine, 98, 117; Arts 102, 120; Graduates, 2, 4.

DEGREES CONFERRED (1918–19). B.A., 7; M.A., 1; M.D., 16.

NEW DEVELOPMENTS. Affiln. of Assumption Coll., Sandwich, Ont. and Ursuline Coll., Chatham, Ont.; Acquisition of Morton Bot. and Seaborn Geol. collections; additional building for Medicine, to cost $400,000, and new main building for Coll. of Arts begun, addl. Arts buildings purchased; Govt recognition of Degrees as qualifying for Teachers' Specialist Certifs.; Dept of Geol. under full-time Prof.; 6 yrs. course in Med.

THE UNIVERSITIES OF AUSTRALIA

ADELAIDE MELBOURNE QUEENSLAND, BRISBANE
SYDNEY TASMANIA, HOBART WESTERN AUSTRALIA, PERTH

GENERAL DESCRIPTION

[Extracted from a pamphlet issued by the Australian Imperial Force Education Service in June 1919, by kind permission of the Chairman of the Administrative Committee of the Australian Universities, Capt. E. R. Holme of Sydney.]

THE Universities of Australia are dotted all round the Commonwealth and are at great distances from one another and in diverse climates. The mean annual temperatures range between about 70° at Brisbane and 54° at Hobart. Western Australia's nearest neighbour is Adelaide, which is about 1600 miles away by the shortest route. There is, naturally, not much moving about of students from one to another; but, as certain subjects cannot yet be studied in Perth, for them West Australians generally transfer to Adelaide, as, in similar cases, Tasmanians go to Melbourne, and Queenslanders to Sydney. As the Univs. are not all uniformly developed, they cannot be quite uniform even in their requirements for entrance. But they exercise all possible reciprocity in the interchange of students. They also give students who come from British Univs. the same status as at Home. Typical of their attitude in this regard is the By-law of Sydney: Undergraduates of other Univs. may, at the discretion of the Professorial Board, be admitted *ad eundem statum* in this Univ. without examn. Provided always that they shall give sufficient evidence of their alleged status and of good conduct.

THE COLLEGE SYSTEM. By an Act of 1854 provision was made for the establishment of "Colleges of Residence in connexion with different religious denominations." So there came into existence at Sydney, and on the Univ. grounds, "St. Paul's" (Church of England), "St. John's" (R.C.), "St. Andrew's" (Presb.) and "Wesley" (Meth.). An "unsectarian" Coll. for women was added. A similar method was also adopted at Melbourne, whose first Coll., "Trinity" (C. of E.), was opened in 1872, and was followed by "Ormond" (Presb.) under benefactions amounting to over £100,000, "Queen's" (Meth.), and "Newman" (R.C.). "Queensland" has "Emmanuel" (Presb.), "St. John's" (C. of E.), "King's" (Meth.), and an "undenominational" Women's Coll., as well as St. Leo's (R.C.). There are no other Univ. Colls. in Australia. All these are self-governing and receive no financial aid from the Univ. They accommodate and teach only a small proportion of the whole number of Australian students.

CONSTITUTIONS. The outstanding feature of the Australian Univ. constitutions is the definite and considerable part taken by the State

in appointing members of their governing bodies. This is due to the large contributions made to them out of public funds. The newest Univs. have admitted divers other persons, such as representatives of commercial, industrial, scientific, and educational societies, or benefactors, to participate with their graduates in the election of senators or councillors. The constitution of Sydney is the simplest; that of Queensland is the most comprehensive in its legal conception of the Univ. as " a body corporate consisting of Senate, Council, and graduate and undergraduate members." Western Australia, however, is the only Univ. where undergraduates are enrolled by Act of Parliament in a " Guild " which is given a representative on Convocation, the electing body that may also disallow or propose amendments in any legislation of the Senate.

ADMISSION. Attempts have been made to devise a common matricn., but, so far, they have failed. The reason lies in the different stages of development in which the Univs. are The standard maintained can be best exemplified by the regns of Sydney. The other Univs. have matricns. which vary in detail from this, but they are equally insistent upon an adequate general education and an appropriate special preparation. The following are Sydney By-laws (24.1 0):

1. Candidates for any of the Degrees shall be required to matriculate before entering upon the prescribed course.

2. Candidates before being admitted to matricn. shall have passed one of the examns. required by the By-laws for admission to the prescribed courses in the different Faculties, or been admitted *ad eundem statum*.

3. Undergrads. of other Univs. may, at the discretion of the Prof. Board, be admitted *ad eundem statum* without examn., provided they give sufficient evidence of their status and of good conduct.

Where an Undergrad. of any other Australasian Univ. desires to transfer he may, at the discretion of the Prof. Board, be granted all the privileges as to matricn. and admission to courses for Degrees to which he is entitled in his own Univ. . . .

4. Any person desirous of attending Univ. lectures may do so without matricn upon payment of fees. . . .

5. All candidates for matricn shall be required to pass an examn. in accordance with the following general requirements: (1) English. (2) Maths. (3) Latin, Greek, French or German. (4) One or more of the following: (*a*) One or more of the foregoing langs. not already taken (*b*) Mechanics. (*c*) History—either English or Modern. (*d*) One of the following: Botany, Chem., Geol, Phys., Physiol., Zool.

In all subjects, except Mechanics, there shall be a Higher and a Lower standard. The examn in Mechanics is at the Higher standard only. A pass at the L.S. shall be deemed sufficient, except where the H.S. is specified.

Candidates must pass at the H.S. in three subjects, one of which must be English, Latin, Greek, French or German. The whole examn. must be passed at one sitting.

The pass, in accordance with the general requirements, will admit to matricn. in any faculty or dept. for which no special requirements are prescribed. . . .

If the pass does not comply with the special requirements for any faculty or dept., the candidate may . . . pass in the additional subject or subjects at one additional examn.

6. Unless the candidate has complied in the general examn. . . . with the special requirements for any faculty or dept., he shall, in addition to the general requirements, be required to pass: Faculty of Arts—Latin or Greek at the H.S. Faculty of Law—Latin at the H.S., and another lang. other than English. Faculty of Med. and Dept. of Dentistry—Latin and another lang. other than English, one at the H.S. Faculty of Science—Latin, Greek, French or German at the H.S. Dept. of Engin.—Maths. at the H.S., Mechanics, General Paper in English and Geog.

THE UNIVERSITY AND THE PROFESSIONS. The Univ has always at least one professional school. Thus Queensland's School of Engineering has a high repute. Western Australia is making a specialty of Agriculture. Tasmania has no professional school but Law. Sydney, Melbourne, and Adelaide, have between them a wide range of schools.

The Engineering schools give a thorough practical training. Rather high entrance requirements are called for in the engineering depts. of each of the Univs. The curricula extend over 4 yrs., and are arranged with the definite view of giving a sound knowledge of the properties of materials, and the principles of Maths., Phys., Chem., and Mechanics underlying all engineering work, before specialized professional subjects are taken. Owing to several large bequests the Russell School of E. in Sydney is the most fully equipped. It maintains separate depts. for Civil, Mech., and Elec. E., for Mining and Metall., and for Archit. and Building Construction. The corresponding Schools in Queensland and Melbourne are also well equipped, and those of Adelaide and Western Australia, although not so comprehensive, are efficient. Systematic arrangements are made for students to obtain practical experience in workshops or in the field during vacations. The University training is widely recognized as a necessary qualification for professional positions. As a rule graduates in Civil E. enter the State or Federal Public Works Depts., which carry out practically all the large national engineering works, very little in the way of Public Services being left to private enterprise. The experience thus to be gained is very good, although it must be admitted that the emoluments are relatively low. Many graduates in Mining E. have been absorbed in the mining industries of Australia, but a great number—probably the majority—find their way to the larger mining centres of the world where the financial rewards are usually greater. There is a good deal of industrial and commercial engineering in Australia, and men wishing to have the freer scope which this offers usually take the courses in Mech. and Elec. E. In Archit., especially the domestic kind, there is a promising outlook in practically all parts of the Commonwealth.

The Medical Schools of Sydney, Melbourne, and Adelaide are among the best in the Empire. They comply with the requirements of the General Medical Council, and there is full reciprocity, in respect of registration of degrees as qualifications to practise, between the U.K. and Australia. Practically the whole Australian medical profession

is now trained in these 3 Univs., and distinguished teachers and research workers are continually being brought in to supplement their staffs. High positions are also held by their graduates outside Australia. It is generally felt by Australian medical men who have had experience in Europe among men trained in the Schools of the U.K., that their own training has been even more practical. It is thoroughly British in scope and method, but, in the proportion of hospital facilities to the number of students, it has had some advantages over the training received by the average British student. Whether this impression is or is not correct, it remains true that Australian medical education has reached a high standard, and the equipment of the Faculty is always good and often excellent. Sydney has the advantage of an immense public hospital, on its own grounds, with another, a short tramway journey distant. The Genl. Hospl. at Adelaide is within half a mile of the Univ., and after the 2nd yr. the greater part of students' time is spent in it. The work done may also be supplemented by study, after graduation, in the "Australian Institute of Tropical Medicine" at Townsville in Queensland; and a Diploma in Trop. Med. is attainable. The Commonwealth gives scholarships of £100 in each year, after reports from these 3 Univs., to scholars attending at Townsville. The recent foundation of the Hall Research Institute in connexion with the Melbourne Hospl. will provide facilities for post-graduate work.

In all the Univs. the Faculty of Arts is becoming, with due help from the Faculty of Science, a professional school for teachers. Sydney and Melbourne have Profs. of Education who are also heads of the State Training Colleges. Adelaide has the State Director of Education on its Ed. Committee and gives a Diploma to graduates in Arts and Science who take a prescribed course of prof. study and have proper experience of teaching. There is a course in Ed. at Queensland and every facility is given to teachers to graduate in Arts. Western Australia has a Dept. of Ed., but it is not yet fully organized. An excellent professional equipment for teaching can now be obtained in Australia and the material rewards of teaching are likely to increase.

The less anciently established professions become associated with the Univs. on obtaining a higher status or a legal organization. Thus Vet. Science, the practice of which is as yet legally controlled in only two States, is now regularly entered in one of these (Victoria) through a Univ. course of study. In N.S.W. its legal constitution will certainly follow the recent institution of a Dept. of Vet. Science at the Univ. of Sydney. In Western Australia, whose Univ. also has a Dept. of Vet. Science, the law requires such qualifications for vet. practice that a Univ. training will become the natural approach to the profession in that State.

Periods of Study. The Univ. requires 3 yrs.' study for a B.A. or B.Sc., 5 yrs. for the first degree in Med. The time needed to graduate in law may vary; thus Melbourne course takes 4 yrs., but Sydney allows Arts graduates, if they can, to do the prof. studies in 2 yrs. To graduate in Engin. requires 4 yrs.; in Vet. Science, in Agric., and in Dent. also 4 yrs., subject to certain minor variations.

Academic Terms. In Australia qualifications are reckoned in "Years" and "Courses." But each "Year" is divided into "Terms."

The number of Terms in the Year is usually 3. The Year begins in March and ends in Nov. or Dec. The "Long Vacation" comprises Dec., Jan., and Feb, which are the warmest months. Melbourne has 4 terms, the First of 12 weeks; the Second of 10; the Third of 10; and the Fourth, or Examn. Term, of 4. Tasmania also has 4 terms. Queensland has 3 terms and 2 Examn. Periods.

FEES AND COST OF LIVING.* The cost of living varies a good deal in different parts of Australia. According to the Commonwealth Statistician the cheapest capital is Perth and the dearest Sydney. A student will probably not notice much difference between Sydney and Melbourne in this respect. But anywhere he will find that £175 a year gives him quite sufficient means, for the climate is benign and good food is plentiful. The style of living everywhere is unostentatious. Decent board and lodging should not cost more than 30s. a week The Univ. "Unions" provide good meals at about cost price, from 6d. to 2s. each, together with all the other comforts of a clubhouse, for £1 or less a year. Exercise in rowing, football, cricket, and other games may be had in the Sports Clubs on correspondingly easy terms.

The student may pay fees for residence in a College, but that is optional. Thus Wesley College, Sydney (Methodist), charges 24 gs. a term for resident students; Ormond, Melbourne (Presb), from 75 to 90 gs. a year for residence during terms, according to the course being taken. St John's, Queensland (Anglican), has fees of £18 per term. Special arrangements can always be made for residence during vacations and, for an example, Ormond then charges £2 a week. Many men live in College on a total income of not more than £150 a year, it is doubtful if any will spend double that amount. There are few rich students and no tradition of expensive living among College men, no charming, but costly ancient customs. The assistance from Scholarships and Bursaries is generous.

The Univ. fees are moderate, and in one case, Western Australia, have been abolished; [but fees for exams., degrees, and certifs. were instituted in W.A. in 1920.—ED.]

As a basis of comparison with the detailed notes of Melbourne and Sydney which follow, the total of fees payable in the course of graduation in Medicine at Adelaide may be taken. It is £145 : 19 : 0. The fees at Tasmania are very small, 4 or more subjects a year costing only 10 gs., and a year's work in the laboratory not going beyond 4 gs. Queensland has composition fees for complete degree courses, which are from 12 to 18 gs. a year in Arts, 20 gs. in Science, and 21 gs. in Engineering.

Melbourne. Matricn. 1 g., Degree 7 gs.; Degree Courses in Arts, 3 yrs. 36 gs.; Science, £22 each yr.; Agric., 4 yrs. 90 gs.; Laws, 4 yrs. 72 gs.; Med., 5 yrs. £115 (excluding Hospl. Fees); Engin., 4 yrs. £94; Vet. Sc., 4 yrs. £97; Music, 3 yrs. 36 gs. (conservatorium extra 28 gs. p.a.).

Sydney. Matricn. £2; Degree in Arts, Econ. & Com., Sc., Agric., or

* Since June 1919, the date of issue of the pamphlet from which this General Description is taken, the cost of living has risen. Prices of food and groceries and house rent in Australia increased between June 1919 and June 1920 by about 20 per cent.

Vet. Sc., £3; other Degrees, £10; Degree Courses in Arts, 3 yrs. 48 gs.; Econ. & Com., 4 yrs. 60 gs.; Law, 60 gs. (Arts subjects additional); Med., 5 yrs. 144 gs. (including Hospl. Attendance, 10 gs., and practical Midwifery, 5 gs.); Dent., 4 yrs. 120 gs. (including Dent. Hospl. 6 gs. p a.); Science, 3 yrs. 63 gs.; Engin., 4 yrs. 99 gs. (Min. and Met., 108 gs.); Agric., 4 yrs. 75 gs.; Vet. Sc., 4 yrs. 72 gs.; Archit., 4 yrs. 108 gs.

CONFERENCE

A CONFERENCE, at which each of the Australian Univs. was represented by two or more delegates, was held at Sydney on May 26, 27, 28, 1920. Among the subjects dealt with were: *Interchange* of Professors with the Univ. of Toronto; interchange of examiners, and especially employment of co-examiners in examns. for Professional Degrees and in Honours and Higher Degree examns.; interchange on loan of books and of periodicals from Univ. libraries; obtaining information by cable of *vacant posts* in Great Britain; participation by the 3 smaller Univs. in the benefits of the 1851 Science Research *scholarships*; promotion of comprehensive schemes of non-matriculated *adult education*; matriculation tests for students of 25 yrs. of age and upwards, differing in character, though not in standard of general intellectual attainment, from the ordinary Matricn. examn.; compulsory courses to be taken by students before entering upon the *Arts curriculum*; extension of *Medical course* to 6 yrs.; customs duty on scientific apparatus imported by Univs. A scheme was also elaborated for establishing a STANDING ADVISORY COMMITTEE with a central office and permanent salaried secretary. The first meeting of this Committee was held on Nov. 15, 1920, at Melbourne. Some of the matters above mentioned were further dealt with, as were also: Recognition of Indian Intermediate Arts examn. as qualification for *matriculation* in Australia; method and function of the Standing Advisory Committee, its expenses, and expenses of future conferences; travelling allowances and increase of stipends for 1851 Science Research *scholars*; co-ordination of *Degrees*; character of Agric. degree; urgent need for immediate promotion of study of *Anthropology*; appointment of Chief Executive Officers with title of *Vice-Chancellor* in Australian Univs., and definition of his status and functions; titles, tenure, emoluments, duties, and grading of members of *Univ. Staffs*; *Appointments Boards*; recognition of work done in *Naval and Military* Colleges.

UNIVERSITY OF ADELAIDE

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir G. J. R. MURRAY, K.C.M.G., B.A., LL.M., Lieut.-Governor and Chief Justice.

VICE-CHANCELLOR—Prof. W. MITCHELL, M.A., D.Sc.

REGISTRAR—C. R. HODGE.

PROFESSORS, LECTURERS, ETC.

Accountancy
Booth, S. R., B.A. Camb. Lectr.
Wauchope, J. G. N., A.C.U.A. Asst.

Anatomy [Elder Prof.
Wood-Jones, F., M.B, M.R C.S., L R.C.P., D.Sc. Lond.
Scott, M. L., M B., M.S., F.R.C.S. Demr.

Botany [Prof.
Osborn, T. G. B., M.Sc. Manc.
Millar, L. J. Demr.

Chemistry
Rennie, E. H., M.A. Syd., D.Sc. Lond. and Melb. Angas Prof.
Cooke, W. T., D.Sc. Lectr.

Classics and Comp. Philol. and Lit. [Hughes Prof.
Naylor, H. D., M.A. Camb.
Hollidge, D. H., M.A. Asst. Lectr.

Commerce, v. also Acctcy.
Heaton, H., M.A., M.Com. (Econ. & Indust. Pract.) Lectr.
Clucas, R. J. M., B.A. (*Ec. Geog.*) Lectr.
Finlayson, R. N., LL.B. (Indust. and C. Law) Lectr.
Ham, W. (Aus. Industries) Lectr.
Sutton, J. (Bank. & Exch.) Lectr.
Steele, R. M., A.C.U.A. (Com. Practice) Lectr.

Education [Lectr.
Schulz, A. J., Ph D. Zür., M.A.

Engineering, v. also Mining
Chapman, R. W., M.A., B.C.E., Melb. Prof.

Forestry
Corbin, H. H., B.Sc. Lectr.
Lea, A. M., F.L.S. (Entomology) Lectr.

French
Crampton, J., B.A. Lond. Lectr.

Geology and Mineralogy
Howchin, W., F.G.S. (G. and Palæon.) Lectr. & Hon. Prof.
Mawson, Sir Douglas, B.E., B.Sc. Syd., D.Sc. Lectr.

History, Modern, and English Lang. and Lit.
Henderson, G. C., M.A. Ox. Prof.

Law
Phillipson, C., M.A., LL.D., Litt.D. Vict., Manc. Prof.
Napier, T. J. M., LL.B. (Ev. and Proc.) Lectr.
Johnstone, P. E., B.A., LL.B. (Contracts) Lectr.
Finlayson, R. N., LL.B. (Private Internat. L.) Lectr.
Thomson, H., LL.B. (Wrongs) Lectr.

Mathematics
Wilton, J. R., M.A. Camb., D.Sc. Elder Prof.

Medicine v. *infra*.

Mining Engineering
Gartrell, H. W., M.A. Col., B.A., B.Sc. Lectr.

Music [Elder Prof.
Davies, E. H., Mus. D.

Philosophy [Hughes Prof.
Mitchell, W., M A., D.Sc. Edin.
Jackson, Sarah E., M.A. Tutor.

Physics
Grant, K., M.Sc. Melb. Prof.
Clark, E. V., B.Sc. (Elec. Engin.) Lectr.

Physiology
Robertson, T. Brailsford, Ph.D. Calif., Sc.D. Prof.
Fuller, W. (Lectr. in Biol.) Demr.

Medicine

Aural Surgery [Lectr
Fischer, G. A., B.A., M.B., B.S.

Bacteriology
Borthwick, T., M.D. Edin. Lectr.

Diseases of Children, Med.
Gunson, J. B., M.B., B.S. Clin. Lectr.

Diseases of Children, Surg.
Newland, H. S., M.B., M.S. Clin. Lectr.

(v. also Obstetrics)

Forensic Medicine [Lectr.
Rogers, R. S., M.A., M.D., Ch.M.

Gynæcology
Hamilton, J. A. G., B.A., M.B. Dub. E. W. Way Lectr.

Materia Med. & Therap.
Hayward, W. T., C.M.G., LL.D. Adel. and Aberd., M.R.C.S. Eng. Lectr.

Medicine and Therap.
Swift, H., M.D. Lectr.
Verco, J. C., M.D. Lond., F.R.C.S. Eng. Lectr.

Medicine, Clinical [Lectr.
Hone, F. S., B.A., M.B., B.S.
De Crespigny, C T. C., M.D., B.S. Melb., M.R.C.P. Lectr.

Medicine, Psychol.
Downey, M. H., M.B., B.S. Lectr.

Obstetrics and Dis. of Children
Lendon, A. A., M.D. Lond. Lectr.

Ophthalmic Surg. [Gosse Lectr.
Morgan, A. M., M.B., B.S.

Otology
Pulleine, R. H., M.B. Syd. Lectr

Pathology
Cleland, J. B, M.D. Syd. Prof.

Surgery
Cavenagh-Mainwaring, W. R., M.B., F.R.C.S. Lectr.

Surgery, Clinical
Cudmore, A. M., M.B., B.S., F.R.C.S. Lectr.

Surgery, Operative
Newland, H. S., M.B. Lectr.

Tutor in Medicine
Ray, W., B.Sc., M.B., B.S.

Tutor in Surgery
Smeaton, B., M.B.

Tutor in Obstetrics
Wilson, T. G., M.D., Ch.M. Syd., F.R.C.S. Edin.

Clinical Teachers
The Staff of the Adelaide and of the Children's Hospls.

ASSOCIATED OR AFFILIATED INSTITUTIONS

S. Australian School of Mines and Industries. President, Hon. Sir L. Bonython. Unites with the Univ. in providing courses and examns. in Mining, Metall. and Engin. The Chancellor is Chairman of the Joint Board.

ROSEWORTHY AGRICULTURAL COLLEGE. Affiliated for parts of the B.Sc. course for Agric. students.

PERTH TECHNICAL SCHOOL. Affiliated to this Univ. as well as to W. Aus. for courses in Phys. Chem., etc.

GENERAL INFORMATION (v. also p. 348)

The Univ. was established by Act of the Provincial Legislature in 1874 with endowments of £40,000 from Sir W. W. Hughes and Sir T. Elder, and a land grant of 50,000 acres (subsequently repurchased by Govt. for £40,000) as well as a site of 5 acres in the city and a recurrent money grant. Sir T. Elder died in 1897 leaving £65,000 to the Univ. In 1911 the State Parliament sanctioned an additional annual grant and took power to appoint 5 additional members of the Council which, until then, consisted of 20 elected by the Senate. In 1914–19, Mr. Peter Waite presented to the Univ. extensive estates including mansion, and in 1920 Sir J. L. Bonython gave £40,000. The value of the endowments amounts to £400,000.

LIBRARY, over 50,000 volumes. LABORATORIES, Biol., Bot., Chem., Phys. The Univ. assists in the management of a Public Library, MUSEUM and ART GALLERY, and controls the ELDER CONSERVATORIUM (annual fee, 14 gs.).

FACULTIES. Arts, Science, Law, Medicine (including Dentistry), Music, Applied Science (including Staff of S. Aus. School of Mines and Industries).

DEGREES. Obtainable after 3 years course, B.A., B.Sc., Mus. B.; 4 years, LL.B., B.E., B.D.S.; 5 years, M.B., B.S.

HIGHER DEGREES. Open to bachelors of 2 yrs. standing, M.A., M.E.; 3 yrs., D.Sc., LL.D., M.D., M.S., Mus.D.

DIPLOMAS. Applied Science (Mining, Metall., or Engin.—Civ., Elec., Mech., or Archit.) 4 yrs. course; Commêrce (A.C.U.A.) evening courses; Education (post-graduate); Forestry, 2 yrs.; Music (A.M.U.A.) 3 yrs.

A "Final Certificate in Law" for admission as a practitioner in the Supreme Court is obtainable by articled clerks on a curriculum less extensive than that for the LL.B.

The Univ. conducts PUBLIC EXAMNS. of various grades, irrespective of those for its own degrees, etc.

SCHOLARSHIPS, etc., for graduates. Angas Engineering, £200 p.a. for 2 yrs., not open to graduates of other Univs.; several smaller.

EXTENSION. Univ. Tutorial classes were established in 1918.

CALENDAR publd. in Feb. Price 2s. 6d.

GRADUATES' ASSOCN. Hon. Sec.—D. H. Hollidge, Box 498, G.P.O.

THE YEAR 1919

BENEFACTIONS. Family of late John Darling, £15,000, and Chancellor Sir G. Murray, £1000 for Med. School building.

NEW CHAIR of Pathology founded.

OTHER NEW DEVELOPMENTS. Full course for degree of B.D.S. established.

NUMBER OF STUDENTS (3 yrs., 1917–19). Preparing for first degrees—309, 380, 502; for M.A.—10, 18, 15. Non-graduating students—259, 335, 411. Conservatorium—250, 324, 521.

DEGREES CONFERRED. B.A., 11, including 6 women; B.Sc., 7 (2 women); B.E., 4; M.B., B.S., 15 (1 woman); LL.B., 3; M.A., 3; M.S., 2; M.E., 1; LL.D., 1.

DEATH AND RETIREMENT. Sir E. Stirling, Prof. of Physiol., d.; A. Watson, Prof. of Anat., r.

UNIVERSITY OF MELBOURNE

VISITOR—H.E. THE GOVERNOR.
CHANCELLOR—Sir J. H. MACFARLAND, M.A., LL.D.
VICE-CHANCELLOR—Sir J. GRICE, B.A., LL.B.
REGISTRAR—J. P. BAINBRIDGE, F.I.C.A., F.C I.S., J.P.
LIBRARIAN—E. D. ULRICH, M.A.

PROFESSORS, LECTURERS, ETC.

[(H) = Hon. Lectr. ; (E) = Evening Lectr.]

Agriculture [Lectr.
Richardson, A. E. V., M.A., B.Sc.

Agric. Engineering
Rennie, E. J. C., B E. Lectr.

Anatomy
Berry, R. J. A., M.D., Ch M , F.R C.S. Edin. Prof.
Anderson, J. H., C.M.G., C.B.E , M.D. Lectr.
Middleton, F. G., M.B., B.S. Stewart Lectr

Anat. Regional and Applied
Newton, H. A. S., M.B., M.S. Lectr.

Architecture
Gawler, J. S., A.R.V.I.A. Lectr.
Sutherland, G., Dip. Arch. Asst.

Bacteriology v. Med.

Biochemistry [Lectr. & Demr.
Young, W. J., D.Sc.

Biology
Agar, W. E., M.A., D.Sc. Prof.
Sweet, Georgina, D.Sc. (also Lectr. in Vet. Parasit.) Assoc. Prof.
Buchanan, G. V., D Sc Lectr
Raff, Janet W., M.Sc. Demr.

Botany & Plant Physiology [Prof.
Ewart, A. J., D.Sc., Ph.D., F.L.S.
McLennan, Ethel, B.Sc. Lectr. & Demr.

Chemistry, v. also Biochem.
Masson, D. O., M.A , D Sc., F.R.S. Prof
Green, W. H., D.Sc. Lectr & Demr.
Rivett, A. C. D , B.A , D.Sc. Assoc. Prof.
Hartung, E. J., D.Sc. Lectr. & Demr.
Green, Leila A., M Sc. Demr.

Classical Philology
Scutt, C. A , M A. Prof.

Classics
Kerry, W., M.A. Lectr.
Cornwall, E. W., B.A. (E.)

Dentistry v. Affiliated Colls.

Dutch and German [Instr.
Lodewyckx, A., M A., Litt.D.

Economics v. Pol. Econ.

Education [Prof.
Smyth, J., M.A., D.Phil. Edin.
McRae, J., M.A., Dip.Ed. Lectr.
Sharman, M. S., M.A., M.Sc. (Maths. & Sc.) Lectr.
Marshall, Ida D., M.A. (Engl. & Hist.) Lectr.
Lawson, R., M.A. (Langs.) Lectr.
..... Lectr.

Engineering, v. also Agric., Arch., Metall., Mining [Prof.
Payne, H., M.I.C.E., M.I.M.E.
Higgins, G., M.C.E., M.I.C.E. (Civ. E.) Lectr.
Brown, E. B., M.Sc., A.C.G.I. (Elec. E.) Lectr.
Laing, J. A , M.C.E. (Concrete) Lectr.
Lupson, J. T., L.S. (Surv.) Lectr.
Miller, S. J., B.E. (Design. & Drawing) Lectr.
Crow, J. W. S., B.C.E. (Lubrication) Lectr.
Callaway, A. E. (Roads) Lectr.
Bassett, W. E., B.C.E. Demr.

English Lang. and Lit.
Wallace, R. S., M.A. Prof.
Strong, A. T., M.A., Litt.D. Assoc. Prof.
Robinson, Hilda M., M.A. Lectr. (E.).

French
Chisholm, A. R , B A. Lectr.

Geology and Mineralogy [Prof.
Skeats, E. W., D.Sc., F.G.S.
Summers, H. St. J., D.Sc. Lectr. & Demr.
Chapman, F , A.C S. (Palæont.) Lectr.
McInerny, K M. M , B Sc. Demr.

German v. Dutch

Histology and Human Embryol.
Hurley, L. E., M.D., B.S. Lectr. & Demr.

History
Scott, E. Prof.
Webb, Jessie S. W., M.A. Lectr.

Japanese, v. also Logic
Inagaki, M. Asst. Instr.

Law
Moore, W. H., C.M.G., B.A., LL.D. Prof.
Sproule, W. S., M.A., LL.B. (Contracts, etc.) Lectr.
Mackey, J. E., M.A., LL.B. (Equity) Lectr.
Gregory, R. H., LL.B. (Land, etc.) Lectr.
Maguire, J. R., B.A., LL.B. (Wrongs, etc.) Lectr.

Logic
Smith, T. J., M.A. (also Instr. in Jap.) (E.).

Mathematics, Pure and Mixed
Nanson, E. J., M.A. Prof.
Michell, J. H., M.A., F.R.S. Lectr.
Weatherburn, C. E., M.A., D.Sc. (E.).
Gundersen, G., B.Sc. (E.).

Medicine v. *infra*

Metallurgy
Higgin, A. J., F.I.C. Lectr.
Thompson, P. F. Demr.

Mining
Merrin, A. H., M.C.E. Lectr.

Music
Laver, W. A. Ormond Prof.

Natural Philosophy
Laby, T. H., M.A. Prof.
Love, E. F. J., M.A., D.Sc., F.R.A.S. Lectr. & Demr.
Hercus, E. O., M.Sc. Lectr.
Holmes, W. M., M.A., B.Sc. Lectr. & Demr.
Rossiter, A. L., M.Sc. Demr.
Allen, Natalie C. B., B.Sc. Demr.

Philos., Mental & Moral [Prof.
Gibson, W. R. B., M.A., D.Sc.
Stewart, J. McK., D.Phil. Assoc. Prof.

Physics v. Nat. Phil.

Physiology [Prof.
Osborne, W.A., M.B., B.Ch., D.Sc.
Maxwell, L. A. I., M.Sc., B.Agr.Sc., M.B., B.S. (also *Anæsth.*) Lectr. & Demr.
Barrett, Sir J. W., K.B.E., C.B., C.M.G., M.D., M.S., F.R.C.S. Eng. (P. of Spec. Senses) (H).
Brewster, Blanche L. Demr.

Political Economy
Kelly, E. C. W., LL.M. Lectr.

Pub. Health v. Med.

Vet. Sc. v. *infra.*

Medicine, v. also Anat. Physiol.

Anæsthetics
Davies, F. L., M.B., B.S. Lectr.

Bacteriology
Bull, R. J., M.D., B.S. Lectr.
Rennie, Hilda M., M.B., B.S. Demr.

Clinical M. and Clin. Surg.
Staffs of the Melb., Alfred, and St. Vincent's Hospls.

Ethics, Med. [Lectr.
Anderson, A. V. M., M.D., B.S.

Forensic M.
Mollison, C. H., M.B., B.S., M.R.C.S. Eng. Lectr.

Mat. Med. & Pharmacy
Stanton, B. L. Lectr.

M. Theory and Practice
Maudsley, Sir H., K.C.M.G., M.D., F.R.C.P. Lond., M.R.C.S. Eng. Stewart Lectr.

Obst. and Gynæc.
Horne, G., M.A., M.D., B.S. Lectr.

Pathology [Prof.
Allen, Sir H. B., M.D., B.S., LL.D.
Apperly, F. L., M.A., M B, M.R.C.S., L.R.C.P. Lond. Lectr.

Tait, J. T., M.D., B.S. Stewart Lectr.
Cox, L. B., M.B. Demr.

Pub. Health [Lectr.
Sinclair, T. W., M.D., B.S., D.P.H.

Surgery
Bird, F. D., C.B., M.B., M.S., F.R.C.S.Eng. Stewart Lectr.

Therapeutics
Turnbull, H. H., M.D., B.S. Lectr.

Veterinary Science, v. also Biol.

Woodruff, H. A, M.R.C.V.S., M.R.C.S.Eng., L.R.C.P.Lond. Prof.

V. Anat. and Surg.
Lewis, J. C., D.V.Sc. Lectr.

V. Hygiene and Diet.
Cameron, S. S., D.V.Sc., M.R.C.V.S. Lectr.

V. Med. and Obst.
Bordeaux, E. F. J., B.V.Sc., G.M.V.C. Lectr.

V. Path., Bact., and Pharm.
Seddon, H. R., B.V.Sc. Lectr.

University Extension

Atkinson, M., Prof., Dir. of Tutorial Classes.

AFFILIATED COLLEGES (v. also p. 348)

I.—RESIDENTIAL—Controlled by representatives of the Churches but open to members of all religious denominations:

TRINITY COLLEGE (Church of England). Warden, J. C. V. Behan, M.A., LL.B., B.C.L. Ox.

ORMOND COLLEGE (Presbyterian). Master, D. K. Picken, M.A. Camb., Glas., and Melb.; Vice-Master, H. W. Allen, M.A.

QUEEN'S COLLEGE (Methodist). Master, Rev. E. H. Sugden, B.A., B.Sc. Lond., Litt.D.

NEWMAN COLLEGE (R.C.). Rector, V. Rev. A. Power, S.J., M.A.

COLLEGE LECTURES (excluding those on Univ. staff). *Chemistry*—Campbell, F. H., D.Sc. *Classics*—Vice-Master of Ormond; Lothian, Miss E. I.

M.A. *English*—Master of Queen's. *French and German*—Wood, Mrs. E., B.A. *History*—Clyne, T. S., M.A.; Hoy, Miss A., M.A. *Law*—Warden of Trinity. *Logic and Philos.*—Flinn, Miss I. M., B.A. *Maths. and Physics*—Master of Ormond; Nelson, Miss E., M.Sc. *Med. and Surg.*—Morgan, F. G., M.B. *Theology*—Albiston, A. E., M.A.; Nance, F. J., M.A.; Grove, J. W., M.A.

II. AUSTRALIAN COLLEGE OF DENTISTRY. President, The Chancellor. Superintendent, F. A. Aird, L.D.S., B.D.Sc. Other Lecturers (excluding those on Univ. staff): Finlay, G. (Op. D.); Greenwood, E. F., D.D.Sc. (Mat. Med.); James, W. A., M.D. (Or. Surg.); Lewis, J. M., D.D.Sc. (D. Surg., etc.); Nicholls, E. B., D.D.Sc. (D. Anat.); Pritchard, G. B., D.Sc. (Met.); Robertson, A. W. D., M.D., B.S. (Anat.); Springthorpe, J. W., M.A., M.D. (Med.); Tuckfield, W. J. (D. Mech. and Met.); Wilkinson, W. S., L.D.S., D.D.S. (Orth.).

GENERAL INFORMATION (v. also p. 348)

The Univ. was founded in 1853 by Act of the Victorian Legislature. In 1904 the annual grant of £9000 was increased by £11,000 enabling the Mining and Agric. Depts. to be developed. At the same time 3 Parliamentary Members were added to the Council of 20 elected by the Senate. In 1909 a further annual grant of £4200 was sanctioned for a Vet. School. In 1919 the invested Trust funds amounted to £185,000, Govt. grants £27,000, fees £49,000, and expenditure on salaries £60,000. The grounds, 104 acres, include four 10-acre College sites surrounding a recreation ground.

LIBRARY, including the Med. and Chem. Departs., 45,000 vols. MUSEUMS AND LABS., Anat., Biol., Engin., Geol., Path. (15,000 specimens), Vet. LABORATORIES, Agric., Bact. (investigations undertaken for Govt. Hospitals and Med. practrs.), Chem., Dent., Metall. and Mining (with 3 head stamp battery), Physics, Physiol. VET. RESEARCH INSTITUTE. Werribu RESEARCH FARM.

FACULTIES. Arts, Sc., Law, Med., Dent., Vet. Sc., Engin. (including Archit., Metall., Mining), Agric. Conservatorium of Music (Director).

DEGREE COURSES: 3 yrs.—B.A. (ordy. and with Honrs.), B.Sc., Mus.B.; 4 yrs.—B.Sc. (Honrs.), LL.B., B.D.Sc., Lic.V.Sc., B.V.Sc., B.C.E., B.M.E., B.E.E., B.Mech.E., B.Agric.Sc.; 5 yrs.—M.B., B.S.

The first 2 years for the LL.B. may be those of the Arts course. The 2nd year of the B.Agr.Sc. course is passed at Dookie Agric. Coll.

HIGHER DEGREES. Open to Bachelors of 1 yr.'s standing—LL.M., M.V.Sc.; 2 yrs.—M.A., M.Sc., M.D., M.S., D.D.Sc., M.C.E., etc.; 3 yrs.—D.V.Sc.; 4 yrs.—D.Litt., D.Sc., LL.D.; 5 yrs.—D.Eng.; 6 yrs.—Mus.D.

DIPLOMAS (which except Dip.Ed. can be taken without Matricn.): Educn., 3 yrs. course which may include 2 yrs. of the course for any degree in the Univ.; Analyt. Chem., 9 mo. following Final Hons. in Chem.; D.P.H., open to Med. grads. of Melb. of 1 yr.'s standing and persons who have for 1 yr. been qualified for registration as Med. practr. in U.K., 9 mo.; D.T.M., open to Aus. Med. practrs. of 1 yr.'s standing, 3 mo.; Metall. or Mining, 3 yrs.; Archit., 4 yrs.; Agric., 3 yrs., of which the 3rd is spent at an Agric. Coll.

The Act of 1904 provided for the admission without fee of at least 80 students for 4 yrs. courses in Mining and Agric. Each year 20 teachers of the Educn. Dept. are admitted without fee to the Diploma course, and special concessions in fees are made to all certif. teachers and students of Training Colls., who are candidates for the Dip.

SCHOLARSHIPS, ETC. Aggregate annual value about £4000. Among the more important are £100 in Pathology, £100 for Econ. Research, £100 (for 2 yrs.) in Geol. and in Vet. Anat., £100 in Anat., £100 for Scientific Research.

RESIDENCE. The Affiliated Colls. (v. *supra*) accommodate over 400 resident students.

PUBLIC EXAMINATIONS. School Intermediate and School Leaving are held by the Univ. annually in Dec.; the Intermediate qualifies for entry into the State Public Service, the School Leaving certif. qualifies for matricn. The Univ. also arranges for the Inspection of Secondary Schools with a view to recognition of Headmasters' Certifs. in connexion with the Public examns.

PUBLICATIONS. *Calendar*, 3s. net., includes list of publicns. by members of staff; *Univ. Mag.*; *Univ. Review*; *Speculum* (Med. Students' Journal); *Examn. Papers*, 1s.; *Handbook of Pub. Examns.*, 1s.; *Short Guide to the Univ.*; *Conservatorium Prospectus*; *Syllabus of Pub. Examns. in Music.*

THE YEAR 1919–20

BENEFACTIONS. For R. G. Wilson Scholps., further £1250; other Scholps. and prizes, £131; Clin. Research, £50 (Dr. Eliz. Sweet's Bequest); Govt. grant increased by £9000.

SPECIAL EVENTS. Visit of the Prince of Wales on June 3, 1920, and of M.P.'s on Sept. 3, 1919.

NEW BUILDINGS. £200,000 is being spent on permanent buildings. Temporary additional accommodation provided for several Depts.

NEW POSTS. Senr. Lectrs. in Anat., Physiol., Path., Zool. Tutors in Engl., Hist., Philos., Sociol., Law. Assoc. Profs., v. next paragraph.

NEW LEGISLATION AND OTHER NEW DEVELOPMENTS. Parliament in 1919 provided the Univ. with an Endowment of from £3300 to £5500 for *Agricultural Education* and a capital sum of £7000 for initial expenses. The Faculty of Agr. is to consist of equal numbers of representatives of Govt. and Univ. The titles of Assoc. Prof. and Emeritus Prof. were instituted. Regns. provided for wider choice of subjects preparatory to courses in Applied or Industrial Science; for a year of practical and research work before a B.Sc. may proceed to M.Sc. degree; for facilitating entry from Technical Colleges. Gordon Tech. Coll. was recognized. Under system instituted by Govt. £1542 was lent to 32 students. A scheme for promoting Pacific Studies in view of Australia's responsibilities under mandates for certain islands was prepared.

NUMBER OF STUDENTS (1917–19). Total (except Music)—1204, 1319, 1840, including women—373, 420, 443; evening—61, 89, 128; Research—5, 3, 11; full degree course—1072, 1244, 1782.

DEGREES CONFERRED (1916–17 to 1918–19). B.A. and B.Sc.—57, 78, 114; LL.B.—12, 10, 23; M.B. and B.S.—55, 67, 39; B.C.E., M.E., E.E., and Mech.E.—9, 8, 19; Mus.B.—7, 2, 3; B.D.Sc.—29, 5, 13; B.Agr.Sc. and B.V.Sc.—7, 4, 6; M.A. and M.Sc.—23, 28, 39; LL.M.—2, 4, 6; M.S. and M.Vet.Sc.—2, 2, 2; M.C.E., etc.—2, 3, 2; D.Litt., LL.D., and D.Sc.—4, 1, 5; M.D., D.V.Sc., and D.D.Sc.—5, 1, 12.

RETIREMENTS. Profs. Sir W. Baldwin Spencer and T. G. Tucker; Lectrs. C. Bage, W. A. M. Blackett, F. I. Maurice-Carton, J. G. Latham, J. F. Wilkinson, S. Plowman.

MIGRATION AND VISITS. Five Profs., etc., visited Europe or America on leave, 4 being granted leave for this purpose. 7 graduates proceeded to Europe for further study—2 to Oxford, 2 to Camb., 1 to Edin., 1 to Dublin, 1 to London.

UNIVERSITY OF QUEENSLAND, BRISBANE

CHANCELLOR—Hon. Sir POPE A. COOPER, K.C.M.G., M.A., Chief Justice of Queensland.

VICE-CHANCELLOR—Hon. A. J. THYNNE.

REGISTRAR AND LIBRARIAN—F. W. S. CUMBRAE-STEWART, B.A., B.C.L., Bar.-at-Law.

PROFESSORS, LECTURERS, ETC.

Biology
Johnston, T. H., M.A., D.Sc. Prof.
Gillies, C. D., M.Sc. Asst. Lectr.

Chemistry
Steele, B. D., D.Sc. Prof.
Denham, H. G., M.A., D.Sc , Ph.D. Asst. Prof.
Bagster, L. S., B.Sc. (Applied C) Lectr.
Jones, T. G. H., B.Sc. Asst. Lectr. & Demr.
Watkins, S. B., M.Sc. Demr.
Peel, Harriett, B.Sc. Junr. Demr

Classics
Michie, J. L., M.A. Prof.
Castlehow, S., B.A. Ox. Lectr.

Economics [(*Pro tem.*) Lectr.
Witherby, T. C., M.A.

Engineering
Hawken, R. W. H., B.A., M.E., M.I.C.E. Prof.
Boyd, A., D.Sc. Lectr. (Mech. & El. E.).
Munro, A. R., A.M.I.M.E. Senr. Demr.
Ross, C. N., M.Sc., B.M.E. Senr. Demr.

Civil Engineering
..... Lectr.

Elec. Engineering
..... Lectr.

English, French, and German
Stable, J. J., M.A. Lectr.
..... Lectr.
Schindler, C., M.A. Evening Lectr.

Geology and Mineralogy
Richards, H. C., D.Sc. Prof.
..... Lectr.

History and Economics
Alcock, H., M.A. Ox. Lectr.
Melbourne, A. C. V., B.A. Lectr. in H. and Industrial H.

Mathematics
Priestley, H. J., M.A. Prof.
Priest, H. J., B.A., B.Sc. Adel. Lectr.
Swanwick, K. Ff., B.A., LL.B. Evening Lectr.

Philosophy
Mayo, G. E., B.A. Prof.
Seymour, P. A., M.A. Lectr. (P. & Educn.).

Physics
Parnell, T., M.A. Prof.
Lusby, S. G., M.A. Lectr.
Burton, E. J., B.Sc. Junr. Demr.

Correspondence Studies
Jones, T. E., B.A. Director.
Craig, Elinor F. Asst.

RECOGNIZED RESIDENTIAL COLLEGES

EMMANUEL (Presb.). Principal—R. Glaister, M.A., B.D.

ST. JOHN'S (C. of E.). Warden—.....

KING'S (Methodist). Master—L. E. Bennett, M.A., B.D.

ST. LEO'S (R.C.). Rector—M. McKenna.

WOMEN'S (includes unmatriculated students). Principal—Freda Bage, M.Sc., F.L.S.

GENERAL INFORMATION (v. also p. 348)

The Univ. was established by an Act of the local legislature in 1909. The entire management and control are in the hands of a Senate of 20 members, of whom 10 were elected by the Council (consisting of all members and past members of the Senate, graduates of the Univ. of 3 yrs. standing, persons appointed by the Govt. as representatives of Commercial, Industrial, Scientific, etc., Assocns., benefactors, etc.). The annual grant from Govt. was £10,000 until 1917, when it was raised to £15,000. Under the will of the late Sir Samuel McCaughey, the Univ. will receive about £232,000.

The grounds, facing the Brisbane River and adjoining the Botanical Gardens, include, in addition to the main building and recreation grounds, 6 departmental buildings and the Central Technical College.

LIBRARY, 19,000 vols. LABORATORIES: Biol., Chem., Applied Chem., Engin., Geol., Metall. and Assaying, Physics.

FACULTIES. Arts, Science, Law, Medicine, Engineering.

DEGREE COURSES. 3 yrs.—B.A., B.Sc.; 4 yrs.—B.Sc. (Applied) in Chem. and Chem. Engin., B.E. in Civ., Mech. and Elec., or Mining Engin.

A Diploma Course in Mech. and Elec. Engin. (may be followed in any approved Coll. or Institn.), 4 yrs.

HIGHER DEGREES. M.A. and M.Sc., open to B.A. and B.Sc. of 2 yrs. standing, through examn. (M.A., examn. and thesis). M.E., open to B.E. of 3 yrs. standing, 25 yrs. of age, engaged in professional work. D.Sc. open to M.Sc. of 5 yrs. standing by examn. and thesis.

EVENING LECTURES AND EXTERNAL STUDENTS. Evening students may extend their course over 5 yrs. in Arts and Sc. No evening work in Engin. subjects is done, but by 5 yrs. of evening work elsewhere exemption from the first 2 yrs. of the B.E. course may be obtained.

Persons who having matriculated are unable to attend lectures at or in connexion with the Univ. may pursue certain courses under the guidance of the Director of Correspondence studies. They may thereby, provided they pass the prescribed examns. (which may be held at local centres), qualify for a B.A. degree.

SCHOLARSHIPS, ETC., FOR GRADUATES. 2 gold medals offered by Govt. for distinction at graduation; £100 for 2 yrs. for Chem. Research; two of £100 each for Engin. work; £200 for study outside Australasia; £300 for 3 yrs., of which 2 to be spent abroad in Engin. Research; £500 for 2 yrs. in Econ. Biol.; £400 for 2 yrs. in Pure Chem.

RESIDENCE. Undergraduates are required to reside with their parents or approved friends or a tutor or in a recognized Residential Coll. or boarding-house licensed by the Senate. Fees in the Colleges (1919), including residence, commons, and tuition, 18 gs. a term (Women's 16 gs., St. Leo's 15 gs.).

PUBLICATIONS. *Calendar*, 2s. 6d.; *Manual of Pub. Examns.*, 1s.

THE YEAR 1919–20

NEW POSTS. Chairs of Philos., Biol., Geol., Physics; Asst. Prof'ship of Chem.

CHANGES IN REGULATIONS, ETC. Conditions of qualifying for D.Sc. defined; fee of 1 g. prescribed for all entries for Annual and Degree examns.

DEGREES CONFERRED in 1917, 1918, 1919. B.A.—25, 18, 23, including women—15, 10, 12; B.Sc.—10, 9, 15 (women—7, 4, 4); B.E.—7, 1, 3; M.A. and M.Sc.—2, 6, 8.

NUMBER OF STUDENTS, 1918 and 1919. Matriculated: Day—159, 185, including women—52, 63; evening—25, 22 (women—4, 4); external—25, 22 (women—8, 12). Non-Matric.: 32, 34 (women—7, 3).

RETIREMENTS. A. K. Gray, Lectr., Mod. Langs.; A. B. Walkom, Lectr., Geol.

PUBLIC EXAMNS., 1919. Junr. Candidates, 1089; Senr., 323.

WORKERS' TUTORIAL CLASSES. 6, attended by 194 students (66 women). Summer School at Christmastime.

UNIVERSITY OF SYDNEY

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir WILLIAM PORTUS CULLEN, K.C.M.G., M.A., LL.D., Chief Justice of N.S.W.

VICE-CHANCELLOR—Hon. Mr. JUSTICE D. G. FERGUSON, B A.

WARDEN AND REGISTRAR—H. E. BARFF, M.A.

LIBRARIAN—J. LE GAY BRERETON, B.A.

PROFESSORS, LECTURERS, ETC.

Accountancy, v. Com.

Agriculture

Watt, R. D., M.A., B.Sc. Prof.
Wright, G. (A. Chem.) Lectr.
Froggatt, W. W., F.L.S. (A. Entom.) Lectr.
Maiden, J. H., F.R.S (A. Bot., also Forestry) Lectr.
Baker, R. T., F.L.S. (Forestry) Lectr.
Wolstenholme, E. K., F.L.S. (Fruit Culture) Lectr.

Anatomy

Wilson, J. T., M.B., Ch.M. Edin. F.R.S. Challis Prof.
Hunter, J. I., M.B., Ch M. Assoc. Prof.
Coen, B. J., M.B. Lectr. & Demr.
Burkitt, A. N. St. G. H., M.B. Lectr. & Demr.
Poate, H. R. G., M.B., Ch.M., F.R.C.S. Eng. Demr.
Maguire, F. A., M.B., F.R.C.S. Demr.
Darling, H. C. R., M.B., M.S. Lond., F.R.C.S. Eng. Demr.
Storey, J. C., M.B., Ch.M., F.R.C.S. Demr.
Teece, L. G., M.D., Ch.M. Demr.
Edye, B. T., M.B., Ch.M. Demr.
Fisher, E. M., M.B., Ch.M. Demr.
Wassell, C. E., M.B., Ch.M. Demr.

Architecture

Wilkinson, L., A.R.I.B.A. Prof.
Hennessy, J. F. (Construction) Lectr.
Coffey, A. (Freehand Dr.) Instr.
Moore, J. D. (Design) Lectr.

Astronomy

Cooke, W. E , M.A. Prof.
Furber, T. F. (Geodesy & A) Lectr.

Botany, v. also Agric.

Lawson, A. A., D.Sc. Prof.
McLuckie, J., M.A., B.Sc. Lect. & Demr.
Brough, P., M.A., B.Sc., B.Sc.Agr. Lectr. & Demr.
Keys, R. A., B.Sc. Demr.
Way, A. J. Demr.

Chemistry

Fawsitt, C. E., D.Sc. Edin., Ph.D. Leip. Prof.
Schofield, J. A., A.R.S.M., F.I.C. Asst. Prof.
Brereton, E. Le G., B.Sc. Lectr. & Demr.
Burrows, G. J., B.Sc. Lectr. & Demr.
4 other Demrs.

Chem., Assaying and Metall.

Eastaugh, F. A., A.R.S.M., F.I.C. Lectr. & Demr.

Chem., Organic, Pure and Applied
Read, J., M.A. Camb., B.Sc. Lond., Ph.D. Zur. Prof.
Harker, G., D.Sc. Lond. Lectr. & Demr.
Turner, E. E., B.A. Camb., D.Sc. Lond. Lectr. & Demr.
Andrews, Alberta, B.Sc. Demr.

Classics
Woodhouse, W. J., M.A. Ox. (Greek) Prof.
Butler, T., B.A. (Latin) Prof.
Todd, F. A., B.A., Ph.D. Jena (Latin) Asst. Prof.
Powe, A. B., B.A. (Latin) Lectr.

Commerce, v. also Econ.
Carter, G. P., A.C.A. (Acctcy.) Lectr.
Moors, E. M., M.A. (Actuarial Maths.) Lectr.
Allard, G. M. (Banking) Lectr.
Braddon, The Hon. H. Y. (Business) Lectr.
Russell, F. A. A., M.A. (Com. & Indust. Law) Lectr.

Dentistry
Reading, R. F., M.R.C.S., L.R.C.P., L.D.S.Eng., Dir. of D. School (Surg. D.) Lectr.
Deck, E., D.D.S. (Mech. D.) Lectr.
Marshall, F., D.D.S. (Mech. D.) Lectr.
Lyell, A. L., D.D.S. (Clin. D.) Lectr.
Ash, P. A., D.D.S. (Surg. D.) Lectr.
Smith, Donald (Surg. D.) Lectr.

Economics, v. also Com., Geol.
Irvine, R. F., M.A. Prof.
Portus, G. V., B.Litt. Ox., B.A. (E. Hist.) Lectr.
Bland, F. A., M.A., LL.B. (Pub. Admn.) Lectr.
Watts, P. R., B.A., LL.B. (Pub. Admn.) Lectr.
Guthrie, F. B., F.I.C. (Tech. of Com. Products) Lectr.
Hodgson, C. A., M.A (Transport) Lectr.
Jefferson, H. G. (Transport) Lectr.

Education
Mackie, A., M.A. Prof.
Cole, P.R., M.A., Ph.D. Col. Lectr.
Roberts, T. T., M.A. Lectr.
Cameron, R. G., M.A. Lectr.
Phillips, G., M.A., D.Sc. (Exper. E.) Lectr.

Engineering v. *infra.*

English Language
Holme, E. R., M.A. Prof.

English Literature
..... Prof.
Waldock, A. J. A., B.A. Lectr.

Forestry v. Agric.

French and German [Asst Prof.
Nicholson, G. G., B.C.L. Ox., M.A.
Marks, Gladys, B.A. Asst. Lectr.

Geodesy v. Astron.

Geography [Assoc. Prof.
Taylor, T. G., D.Sc., B.E.

Geology and Phys. Geog.
David, T. W. E., C.M.G., B.A., D.Sc. Ox., F.R.S. Prof. & Hovell Lectr.
Cotton, L. A., M.A., D.Sc. (also in Com. Geog.) Lectr. & Demr.
Browne, W. R., B.Sc. Lectr. & Demr.
Waterhouse, L. L., B.E. Lectr. & Demr.
Powell, Dorothy E., B.Sc. Demr.
Peart, Mary M., B.Sc. Demr.
Toone, Dorothy A., B.Sc. Demr.
Sharpe, Flora L., B.Sc. Curator.
Dun, W. S. (Palæont.) Lectr.

History, v. also Econ.
Wood, G. A., M.A. Ox. Challis Prof.
Bruce, J. F., B.A. Ox., M.A. Lectr.

Languages v. Classics, Mod., and Orient.

Law v. *infra.*

Logic and Mental Philos.
Anderson, F., M.A. Glas. Challis Prof.
Lovell, H. T., M.A., Ph.D. Jena Lectr.
Phillips, G., M.A., D.Sc. Asst. Lectr.

Mathematics, Pure and Applied
Carslaw, H. S., M.A., Sc.D. Camb., D.Sc. Glas. . Prof.
Lyons, R. J., B.A. Lectr.
Wellish, E. M., M.A. (Appl. M.) Lectr.
Thorne, H. H., B.A., B.Sc. Lectr.

Medicine v. *infra.*

Metallurgy, v. also Chem.
Turner, B. W., A.R.S.M. Russell Lectr.

Mining
Power, F. D., F.G.S. Russell Lectr.
Wilson, J. B., B.E. Asst. Lectr.

Modern Literature, v. also Engl., French
MacCallum, M. W., M.A., LL.D. Glas. Challis Prof.
Brennan, C. J., M.A. Assoc. Prof.

Oriental Studies
Murdoch, J., M.A. Prof.
Miyata, M. (Japanese) Reader.
Thatcher, Principal Lectr.

Philosophy v. Logic

Physics
Pollock, J. A., D.Sc., F.R.S. Prof.
Vonwiller, O. U., B.Sc. Asst. Prof.
Mackay, I. G., B.A. Lectr. & Demr.
Booth, E. H., B.Sc. Lectr. & Demr.
Briggs, G. H., B.Sc. Lectr. & Demr.
4 other Demrs.

Physiology
..... Prof.
Priestley, H., M.D., Ch.M., B.Sc. Lectr. & Ch. Demr.
Horsfall, W. N., M.B. Lectr. & Demr.
Cotton, F. S., B.Sc. Lectr. & Demr.
McQuiggin, H. G., B.Sc. Lectr. & Demr.
Wardlaw, H. S. H., D.Sc Lectr. & Demr.
Dixon, J. R., M.R.C.S. Demr.
Hindmarsh, Ellen M., B.Sc. Demr.
Ingram, W. W., M.D., B'Ch. Demr.

Public Health
Armstrong, W. G., B.A., M B., Ch.M. Lectr.

Surveying [Russell Lectr.
Craig, A. D., B.A., B.E.
Thom, N. G. Demr.
Quigley, R. A., B.Sc. Demr.

Veterinary Science, v. also Zool.
Stewart, J. D., M.R.C.V.S., B.V.Sc. Prof.
Dodd, S., F.R.C.V.S., D.V.Sc. Melb. (Path., etc.) Lectr.
Walters, C. J M , B.V.Sc. (Mat Med., etc.) Lectr.

Zoology, v. also Agric.
Johnston, S. J., B.A., D.Sc. Challis Prof.
Harrison, L., B.A., B.Sc. (Lectr. in Vet. Parasit.) Lectr. & Demr.
Briggs, E. A., B.Sc. Lectr. & Demr.
Chase, Eleanor E., B.Sc. Demr.

Engineering, v. also Mining
Warren, W. H., M I.C.E., LL.D. Challis Prof.
Miller, W. A., B.Sc., B.E. (Civ. E.) Lectr. & Demr.
Hirst, G. W. C. (Civ. E.) Demr.
Lush, W. H., B.E. (Civ. E.) Demr.

Electrical E.
Madsen, J. P. V., B.E., B.Sc., D.Sc. Adel. Russell Prof.
Sharp, L. H., B.Sc., B.E. Lect. & Demr.

Mechanical E. [Russell Prof.
Barraclough, Sir S. H. E., M.M.E. Corn., B.E., M.I.M.E.

Swain, H. J., B.A., B.Sc., B.E. Lectr.
Sutherland, G. F., A.R.C.S. Lectr. & Demr.
Pilz, A. S., B.Sc., B.E. Demr.

Law, v. also Com.

Peden, J. B., B.A., LL.B. Challis Prof.

International Law & Jurispr.
Charteris, A. H., LL.B. Challis Prof.

Contracts, Merc. Law, Torts
Hammond, J. H., B.A., LL D. Challis Prof.

Equity, Probate, etc.
Jordan, F. R., B.A., LL.B. Challis Lectr.
Davidson, C. G., B.A., LL.B. Reader.

Crim. Law & Proc. & Common Law Practice
Edwards, D. S , B.A., LL.B. Challis Lectr. & Reader.

Interpretation [Challis Lectr.
Rogers, P. H., B.A., B.C.L.

Roman Law [Challis Lectr.
MacCallum, M. L., M.A., B.C.L.

Conveyancing
Watts, P. R., B.A., LL.B. Reader.

Medicine, v. also Pub. Health

Anæsthetics
Lidwill, M. C., M.D. Tutor.

Diseases of Ear, Nose, Throat
Marks, H. J., M A., M.D. Lectr.

Diseases of the Skin [Lectr.
Molesworth, E. H., M.B., Ch.M.

Ethics of Med. Pract.
..... Lectr.

Gynæcology
Barrington, F., M.B., Ch.M. Edin., F.R.C.S. Eng. Lectr.

Infectious Diseases [Hon. Tutor.
Millard, R. J., M.B., Ch.M.

Materia Med. and Therap., v. also Pharm.
Macpherson, J., M.A., M.D., Ch.M. Lectr.

Medical Jurispr. [Lectr.
Todd, R. H., B.A., M.D., Ch.B.

Med., Principles, etc.
Mills, A. E., M.B., Ch.M. Prof.

Medicine, Clinical
Rennie, G. E., B.A., M.D., F.R.C.P. Lectr.
Gillies, S., M.A., M.D. Lectr.
Blackburn, C. B., M.D., Ch M. Lectr.
Gill, J. M., M.D. Lectr.

Med. Tutors
Cosh, J. I. C., M.B., Ch.M.
Fairfax, E. W., M.B., Ch.M.
Marshall, H. H., M.B., B.Sc.

Obstetrics [Lectr.
Windeyer, J. C., M.B., Ch.M.

Ophthalmology [Lectr.
Pockley, F. A., M.D., Ch.M. Edin.

Pathology
Welsh, D. A., M.A., B.Sc., M.D , F.R.C.P. Edin. Prof.
Barling, J. E. V., M.B., Ch.M. Lectr. & Chief Demr.
Little, E. Marjory, M.B. Demr.
Edye, B. T. (v. Anat.) Demr.
Inglis, W. K., M.D., Ch.M. Demr.

Pharmacology
Chapman, H. G., M.D., B.S. Prof.
Stroud, S. H., F.I.C. Lectr. & Demr. in Pharmacy.
Lilley, Mary M. Demr.

Psych. Med.
..... Lectr.

Surgery, Principles, etc. [Lectr.
Sandes, F. P., M.D., Ch.M., B.Sc.

Surg., Clinical
MacLaurin, C., M.B., Ch.M. Lectr.
Abbott, G. H., B.A., M.B., Ch.M. Lectr.
Craig, R. G., M.B., Ch.M. Lectr.
Maitland, Sir Herbert L., M.B., Ch.M. Lectr.

Surg. Tutors
McKelvey, J. L., M.B., Ch.M.
Aspinall, A. J., M.B., Ch.M.

University Extension

Portus, G. V. (v. *supra*, Econ.) Dir. of Tutorial Classes
Bland, F. A. Asst. Director.

COLLEGES WITHIN THE UNIVERSITY

ST. PAUL'S COLLEGE (Anglican). Warden—A. H. Garnsey, M.A., Lectr. in *Div.*, *Hist.*, and *Classics*. Sub-Warden—L. B. Heath, B.A., Lectr. in *Classics*. Lectr. in *Med.*—H. J. Clayton, M.B., Ch.M. *Philos.*—R. S. Lee, B.A.

St. JOHN'S COLLEGE (R.C.). Rector—Very Rev. M. J. O'Reilly, Lectr. in *Christian Apologetics*. Vice-Rector—M. O'Farrell. Other Lectrs.: *Med.*—H. M. Moran, M.B., Ch.M. *Scholastic Philos.*—Very Rev. J. Corcoran. *Hist.*—P. J. Sheehy.

ST. ANDREW'S COLLEGE (Presb.). Principal—E. E. Anderson, M.A. Aberd. Vice-Principal—A. L. Campbell, B.A., B.E. Secretary—S. J. Carruthers. Hunter-Baillie Profs.: *Oriental and Polynesian Langs.*—The Principal. *Engl. Lang. and Lit.*—R. G. Macintyre, M.A., B.D. Lectrs.: *Law*—R. T. Kay. *Maths.*—The Vice-Principal. *Med.*—E. M. Fisher, M.B., Ch.M. *Science*—G. H. Clarke, B.Sc. (*Biol.*); A. A. Pain, B.Sc., M.B., Ch.M. (*Phys. and Chem.*). *Classics*—R. I. Kay, B.A., LL.B. *Engin.*—The Vice-Principal.

WESLEY COLLEGE (Methodist). Master—M. Scott Fletcher, M.A. Syd., B.Litt. Ox. Tutors: *Philos.* and *Class.*—The Master; *Physics*—R. J. Jackson, M.A. 3 Tutors in *Med.*

THE WOMEN'S COLLEGE. Principal—Miss S. J. Williams, M.A.

GENERAL INFORMATION (v. also p. 348)

Founded by Act of the N.S.W. Legislature in 1850, the Univ. was granted a Royal Charter in 1858. Its development has been largely due to private benefactions, notably those of J. H. Challis—£250,000—in 1880, T. Fisher—£30,000 for Library—in 1885, and P. N. Russell—£100,000 for School of Engineering, etc.—in 1896 and 1904. Under the will of Sir S. McCaughey it will receive £15,000 p.a. In 1912 the Statutory endowment was raised from £10,000 to £20,000 with provision for further automatic increases, and at the same time the constitution of the governing body, called the Senate, was altered so as to include 6 nominees of the Govr. and Parliament (one-fourth of the whole number). In 1917–18 the Statutory endowment was further increased by £32,000, including £2000 for the new School of Architecture. The Private Foundations cash balances amounted in 1918 (*i.e.* before receipt of the McCaughey Bequest) to nearly £600,000, Govt. grants to £66,000, fees £15,000, expenditure on salaries £72,000, including £12,000 from the Challis Fund. The grounds, which include the sites of the Colleges grouped round an oval, cover 140 acres.

Provision was made by Act of Parliament soon after the foundation of the Univ. for endowing such Colleges as might be established within it, to the extent of £20,000 in aid of building and £500 p.a. towards the Principal's salary.

The LIBRARY, 120,000 vols., receives over 700 serial publications. MUSEUMS: Nicholson collection of Egyp., Greek, Roman, and Medieval Antiq. (4000 specimens); Macleay Nat. Hist.; Anat., Geol., and Zool. LABORATORIES: Schools of Med., Engin., and Archit., Bot., Chem. (including Metall. and Research), Geol. (with rock analysis Research), Phys., Zool.

The ROYAL PRINCE ALFRED HOSPL., erected on the Univ. grounds as a general hospl. and school, has 518 beds.

FACULTIES. Arts, Law, Med., Science, Engin., Dent., Vet. Sc., Agric., Econ., Archit.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.; 4 yrs.—B.Arch., B.Sc. in Agric. (3 for diplomate of recog. Agric. Coll.), B.Ec., LL.B. (after completing 1st yr. in Arts or passing Law Entrance Examn.), B.D.S., B.V.Sc., B.E. (in Civ. Mining and Metall., or Mech. and Elec.); 5 yrs.—M.B., Ch.M.; 2 yrs. advanced study or research (after full 3 yrs. course at another Univ.)—B.A. or B.Sc. The LL.B. qualifies conditionally for admission to the bar. Law students usually take the B.A. first, selecting Law subjects in 3rd yr., and complete combined course in 5 or 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articled clerk.

HIGHER DEGREES. Obtainable by bachelors of 2 yrs. standing—M.A., M.Ec., LL D., M.D.; 3 yrs.—D.Sc., M.E.

DIPLOMAS. Educn. (for graduates in Arts or Sc.), 1 yr.'s course; Econ. and Comm., 3 yrs.; D.P.H.; D.T.M.

Candidates for the Diploma of the Pharmacy Board have to attend courses in the Univ.

RECOGNITION OF STUDIES ELSEWHERE. A considerable portion (in Med. 3 yrs.) of the curriculum for a Degree must be taken in Syd.

SCHOLARSHIPS, ETC., FOR GRADUATES. Junior Demrs. are appointed annually in each Scientific Dept. with the obligation to carry out research under the direction of the Prof.; 4 post-grad. Scholarships of £150 each and 2 of £300 are awarded annually for scientific study and research in the Univ.; 4 Macleay Fellowships of £400 p.a. each are tenable by B.Sc.'s; 4 others of £300 p.a., and 2 Scholps. of £200 p.a., tenable for 2 yrs., are awarded annually for further study and research at Syd. or abroad.

RESIDENCE. The four denominational Colls. (v. *supra*) provide accommodation for 180 students; the Women's Coll. for 28.

UNIVERSITY EXTENSION LECTURES are given in courses of from 3 upwards in Sydney and numerous local centres. *Tutorial Classes* are provided, as prescribed by the Act of 1912, under the superintendence of a Joint Committee of the Univ. and Workers' Educl. Assocn. of N.S.W. In 1918 the Govt. grant for this purpose was £4750; 37 classes were at work, including 800 effective students.

PUBLICATIONS. *Calendar* pubd. in June, 2s. 6d., with annual report and list of publicns. of Univ. Staff; Reprints of Scientific Papers by members of the Staff; *Students' Handbook*, annually in March; *Hermes*, an undergrads.' mag.

THE YEAR 1919

BENEFACTIONS. For addl. buildings, Govt. grant £80,000 p.a. for 6 yrs.; J. Osborne, R.N., £1000 for Scholp. in Med.; for prize in Elec. Engin., £100.

NEW CHAIRS. Med., Internat. Law and Jurispr., Engl. Lang., Engl. Lit., French, Surg., Elec. Engin., Dent. *Assoc. Prof'ships*: in Psychology, German and Comp. Lit., Anat., Geog.

OTHER DEVELOPMENTS. Arrangements made for granting 1 yr.'s leave of absence after 7 yrs. service to full-time Profs. to enable them to visit other centres of learning.

NUMBER OF STUDENTS (1917–19). Total—1736, 1995, 2764 (including women—599, 641, 748). Full-time, preparing for B.A.—273, 256, 351 (women —175, 150, 195); LL.B.—64, 73, 170; M.B., Ch.M.—545, 616, 876; B.D.S.— 13, 22, 48; B.Sc.—196, 187, 189 (women—124, 112, 96); B.E.—70, 96, 152; B.V.Sc.—2, 6, 14; B.Sc.Agr.—13, 14, 18; B.Arch.—0, 0, 20; Pharm. or Massage—129, 221, 235. Post-grad. and Research—69, 53, 109. Evening— 327, 352, 401. Occasional—51, 112, 214.

DEGREES CONFERRED (1917–19). Total—223, 325, 229. B.A. and B.Sc.— 97, 128, 121; B.Ec.—7, 13, 4; LL.B.—7, 8, 7; M.B.—44, 73, 28; Ch.M.— 36, 77, 37; B.D.S.—0, 4, 3; B.E., B.V.Sc., and B.Sc.Agr.—17, 7, 9; M.A., M.E., D.Sc., LL.D., and M.D.—15, 15, 20.

DEATHS AND RESIGNATIONS. Sir T. A. Stuart, d. (1920); Pitt Cobbett, Em. Prof. of Law, d. (1919); E. M. Mitchell, Lectr., Law, r.; G. W. Waddell, Lectr., Law, r.; S. A. Smith, Lectr., Anat., r.; A. W. Munro, Demr., Path., r.; J. Foreman, Lectr., Gynæc., r.; F. Barrington, Lectr., Obst., r.; A. Davidson, Lectr., Psych. Med., r.; Mrs. F. S. Cotton, Demr., Geol., r.; G. F. Finlay, Lectr., Vet. Surg., etc., r.; J. T. Wilson, Prof., Anat., r.

UNIVERSITY OF TASMANIA, HOBART

VISITOR—H.E. THE GOVERNOR.
CHANCELLOR—Hon. TETLEY GANT, C.M.G., M.A.
VICE-CHANCELLOR—W. J. T. STOPS, LL.B.
REGISTRAR—M. M. ANSELL, M.A.
LIBRARIAN—E. MORRIS MILLER, M.A., Litt.D.

PROFESSORS, LECTURERS, ETC.

Accountancy and Auditing
Cummins, H. H , F.I.C.A. Lectr.

Biology [Ralston Prof.
Flynn, T. T., B.Sc. Syd.

Chemistry
MacLeod, P. J., B.A. N.Z. Lectr.

Classics and English Lit. [Prof.
Williams, W. H., M.A. Camb.
Dunbabin, R. L., M.A. Ox. (Classics) Prof.

Education
Johnston, J. A., M.A. N.Z. Lectr.

Engineering
Burn, A., B.E. Syd., M.Sc.
Canning, R. W., A.M.I.C.E., A.C.G.I. Lond. Lectr. in Elec E. and in *Maths.*

History and Economics
Copland, D. B., M.A. N.Z. (Dir. of Tutorial Classes) Lectr.
King, C. S., M.A.Ox., B.A. Lectr.
Judd, W., M.A. Melb (Hist. and Tut. Classes at Launceston) Lectr.

Law
McDougall, D. G., M.A., B.C.L. Ox., M.A., LL.D. Melb. Prof.
Griffiths, P. L., M.A. Melb., LL.B. Lectr

Mathematics, v. also Engin.
McAulay, A., B.A. Camb., M.A. Melb. Prof.
Fraser, H., M.A., B.C.E. Melb. Lectr.

Modern Languages
Raamsdonk, I. N., Litt.B., LL.B. Amst. Lectr.

Philosophy
Miller, E. Morris, M.A., Litt.D. Melb. Lectr.

Physics
Burdon, R. S., B.Sc. Adel. Lectr.

AFFILIATED SCHOOLS

ZEEHAN SCHOOL OF MINES AND METALLURGY.
MT. LYELL SCHOOL OF MINES AND INDUSTRIES.

GENERAL INFORMATION (v. also p. 348)

Founded in 1890 under an Act of the Tasmanian Legislature, the Univ. was, in 1915, granted a Royal Charter. To the original Faculties—Arts, Science, and Law—Commerce was added in 1919. The annual Govt. grant is £13,000.

LIBRARY, 12,000 vols. LABORATORIES: Chem., Phys., Biol.; Testing plant in Engin. Dept. Facilities for investigation in Elec. Engin. OBSERVATORY, 8″ reflector telescope.

DEGREE COURSES: 3 yrs., B.A., B.Sc., LL.B. (after 1 yr. of Arts course); 4 yrs., B.Com.

HIGHER DEGREES. Open to Bachelors of 2 yrs. standing, M.A., M.Sc., LL.M., M.Com.; 3 yrs., D.Sc.; to Masters of 3 yrs. standing, LL.D.

DIPLOMAS of the Affiliated Schools: Metal Mining; Metall., Chem., and Assaying.

CERTIFICATE of Commerce, 2 yrs. course.

UNIVERSITY EXTENSION. Tutorial classes were first established in 1914. Annual grant, £1125.

PUBLIC EXAMINATIONS. Junior and Senior (minimum ages 12 and 15). Music (held in conjunction with other Australian Univs.).

PUBLICATIONS. *Calendar* (Aug.), 2s.; *Pub. Examns. Manuals*, 2s.; *Degree Examn. Papers*, 1s. Univ. news appears in Hobart *Mercury* and *World*.

THE YEAR 1919–20

GOVERNMENT GRANTS. Annual grant increased by £3930. Special grant of £4000 for Engin. buildings.

NEW POSTS. Chair of Econ.; Lectr. in Hist. and Econ. (Tutorial Classes, West Coast).

DEGREES CONFERRED. B.A., 7; B.Sc., 1; LL.B., 3; others. 4.

NUMBER OF STUDENTS (1917–18 to 1919–20): Preparing for Bachelor's Degree—101, 104, 218, including (in 1919–20) 68 women; for Master's degree —3, 4, 3. Workers' Educational Ass. students—182.

PUBLIC EXAMNS. Entries: Junior, 599; Senior, 179.

RESIGNATIONS. J. H. Mackay, Prof. of Engin.; B. H. Molesworth, Lectr. in Hist.

UNIVERSITY OF WESTERN AUSTRALIA, PERTH

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—His Grace Archbishop RILEY, M.A., D.D.

PRO-CHANCELLOR—CECIL ANDREWS, M.A.

VICE-CHANCELLOR—Prof. J. W. PATERSON, B.Sc., Ph.D.

WARDEN OF CONVOCATION—Hon. A. J. H. SAW, M.D.

REGISTRAR—.....

PROFESSORS AND LECTURERS

Agriculture

Paterson, J. W., B.Sc. Edin., Ph.D. Leip. Prof.

Biology

..... Prof.

Fordham, M., B Sc. Asst.

Chemistry

Wilsmore, N. T. M., D.Sc. Melb., F.I.C. Prof.

Tattersall, G., M.Sc. Manc., F.I.C. Lectr.

Classics

Wood, G., M.A. Aberd. Lectr.

Education

Rooney, W. J., B A Syd. Assoc. Lectr.

English [Prof.

Murdoch, W. L. F., M.A. Melb.

Ramsay, H., M.A. St. And. Asst.

French and German

Irving, G. T., M.A. Edin. Lectr.

D'Ery, Liliane Asst.

Geology

Häuser, H. B., B.Sc. Melb. Lectr.

History and Economics

Shann, E. O. G., B.A. Melb. Prof.

Hancock, W. K., B.A. Melb. Asst.

Mathematics and Physics [Prof.

Ross, A. D., M.A., D.Sc. Glas.

Sanders, H. W., B.A. Adel. Lectr.

Gray, R. C., M.A., B.Sc. Glas. Lectr.

Thompson, M. A., B.Sc. N Z. Asst.

Mining and Engineering

Whitfeld, H. E., B.A., B.E. Syd., M.I.M.M. Prof.

Tomlinson, A., M.Sc. Manc., A.M.I.C.E. Lectr.

Fraenkel, P. H., B.E.E. Melb., A.M.I.E.E. Assoc. Lectr.

Philosophy [Assoc. Lectr.

Dods, G. N., M.A. Edin.

Oxer, F. E., M.A., Melb., B.D. Assoc. Lectr.

Surveying

Nunn, G. M., L.S. Assoc. Lectr.

Veterinary Science

Le Soeuf, E. A., B.V.Sc. Melb. Assoc. Lectr.

AFFILIATED SCHOOLS

PERTH TECHNICAL SCHOOL, and SCHOOL OF MINES, KALGOORLIE.

GENERAL INFORMATION (v. also p. 348)

Established by Act of the State Legislature in 1911, the Univ. opened its first session in 1913. It has a large endowment of land granted by Govt., including a site of 100 acres for buildings, and receives an annual grant of £13,500. No fees are charged for class attendance. The administration is vested in a Senate of 18 persons, of whom 6 are nominated by Govt.

LABORATORIES. Agric., Biol., Chem., Geol., Engin., Phys.

FACULTIES. Arts, Sc. (including Agric.), Engin.

DEGREE COURSES 3 yrs.—B.A., B.Sc., B.Sc.Eng.; 4 yrs.—B.A. (Hons.) and B.Sc. (Hons.); 5 yrs.—B.E. (a sandwich system during last 3 yrs.). First year Med. course in Fac. of Sc.

HIGHER DEGREES. M.A., M.Sc., M.E., D.Litt., D.Sc.

DIPLOMAS. Agric. and (Associateship) Engin.

PUBLIC EXAMINATIONS. School Certifs. (Junr. and Leaving) and Music.

PUBLICATIONS. *Calendar* (Dec.), 2s. 6d.; *Public Examn. Manuals.*

THE YEAR 1920

CHANGES IN REGULATIONS, ETC. Fees instituted for examns., degrees, and certifs., but no fees for tuition.

DEVELOPMENTS. Courses for Journalists in Engl. Lit., Econ., and Science.

DEGREES GRANTED. B.A., 26; B.Sc., 11; B.Sc. Eng., 10; B.E., 3; M.A., 2; Dipl. Agric., 1.

NUMBER OF STUDENTS. In Arts—Ordinary, 194 (including 92 women), post-grad., 8 (5 women); Science—72 (19 w.), post-grad., 5 (4 w.); Engin.—35, post-grad., 2. Attending special courses, 63.

RETIREMENTS. Prof. W. J. Dakin, apptd. to Chair of Zool., Liverpool; A. Cayzer, Lectr. in Biol., apptd. Lectr. in Queensland; W. G. Woolnough, Prof. of Geol.; M. Aurousseau, Asst. Lectr. in Geol., apptd. Research Student, Carnegie Inst., Washington.

UNIVERSITY OF NEW ZEALAND

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—Sir ROBERT STOUT, K C.M.G., LL.D.

VICE-CHANCELLOR—J. MACMILLAN BROWN, M.A., LL.D.

CHAIRMAN, BOARD OF STUDIES—Prof. H. W. SEGAR, M.A., Auckland.

REGISTRAR—E. T. NORRIS, M.A., Wellington.

AGENT IN ENGLAND—J. W. JOYNT, M.A. Dub., 88 Gower Street, London, W.C.1.

AFFILIATED INSTITUTIONS

UNIVERSITY OF OTAGO, DUNEDIN.

CANTERBURY COLLEGE, CHRISTCHURCH.

AUCKLAND UNIVERSITY COLLEGE.

VICTORIA UNIV. COLLEGE, WELLINGTON.

This University, an examining body, was founded in 1870. Its constitution, defined by the N.Z. Univ. Act 1908 as amended in 1912, 1914, and 1915, vests the Government of the Univ. in a Senate of 24 members (Fellows), assisted, as regards schemes of study, etc., by a Board of Studies representing the College Professorial Boards. Of the Fellows, 4 are nominated by the Governor, and 20 elected, 8 by the College Governing Bodies, 4 by their teaching staffs, and 8 by graduates. The Chancellor and Vice-Chancellor are elected by the Senate; the former (or, in his absence, the latter) presides at meetings of the Senate. There are no University buildings: the offices are at Wellington.

MATRICULATION. Candidates must pass in 5 subjects, including English, Maths., and one language. A candidate who does not pass in Latin or Greek must pass in Physical or Natural or Home Science. Not more than one of these sciences can be taken; in the syllabus prominence is given to their practical aspect.

TERMS. A student presenting himself for a Univ. examn. for which the keeping of terms is required must have passed the College examn. in the subjects he offers at the corresponding stage. The subjects in which terms must be kept are: all those of the B.A., B.Sc., and LL.B. degree courses; of the 1st and 2nd Divisions of the B.Com. course; of the Engineering Entrance examn. A student whose name is on the books of an affiliated College, and who has passed its annual examn., is deemed to have kept the terms of the year if he has attended the prescribed courses, *or*, being resident more than 10 miles from College or engaged in acquiring a profession or trade or earning a livelihood, has been thereby prevented from attending, *or* objects on grounds of religious scruples to such attendance.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.., B,Sc. in Home Science, B.Mus., B.Agr. (including practical work on farm), B.Sc. in Forestry; 4 yrs.—B.Sc.

in Archit. (including 18 mos. practical work), LL.B., B.D.S., B.E. (Mech., Elec., Civ., Mining, Metall., including from 9 to 18 mos. in shops, mines, or surveying), B.Com.; 5 yrs.—M.B., Ch.B.

HIGHER DEGREES M.A., M.Sc., LL.M., M.D.S., M.Com.; Litt.D., D.Sc., LL.D., M.D., D.Mus. The Mastership is obtained through examn. The Doctorate may be taken by a Bachelor of 5 yrs. (in Med. 3 yrs.) standing who offers suitable original work and, if in Arts, Sc., or Law, has already obtained the Mastership or equivalent degree, or, if in Med. or Music, passes a prescribed examn.

DIPLOMAS. D.P.H. (9 mos. course); Journalism. *Certificate* of Proficiency in Dental Surgery.

PROFESSIONAL AND TECHNICAL SCHOOLS. *Law* at all the Affiliated Colls., the chief school being that of Victoria; *Med.* and *Dent.* and *Home Science* at Otago; *Archit.* and *Engin.* (Civ., Elec., and Mech.) at Canterbury; *Mining* and *Civ., Elec.,* and *Metall. Engin.* at Auckland and Otago; *Commerce* and *Music* mainly at Auckland and Canterbury; *Agric.* at a recognized (but not affiliated) Coll. at Lincoln.

"AD EUNDEM" RECOGNITION. Courses completed, or partially completed, at any British chartered or other approved Univ. are accepted *ad eundem.*

SCHOLARSHIPS FOR GRADUATES. In almost every subject of the B A. or B.Sc. syllabus and in Law—£60 each; in Arts—£200 (2 yrs.); Travelling Scholps. in Arts, Engin., French, and Med.—£150 each.

Two first-class return passages between Australia and England are offered yearly by the Orient Co. for grads. of the Univ. proceeding to Europe to continue their studies. The Union S.S. Co. and Huddart Parker Co. supplement this by a similar concession between N.Z. and Australia.

PUBLICATIONS. *Calendar* (June), 2s. 6d.; *Minutes of Prodgs. of Senate,* free; *Examn. Papers,* 6d. or 1s. a set; *Reports of Examrs.* (in England and N.Z.) free; Reports (Govt. Press, Wellington) on Univ. Colls., 1912, 9d., and on Univ. Reform (with evidence), 1913, 2s. 3d.

THE YEARS 1917–20

ACADEMIC POLICY. The B.A. and B.Sc. courses have been largely reconstructed, mainly through the introduction of a system of Pass and Advanced subjects. Each now consists of (*a*) 4 Pass and 2 Advanced or (*b*) 5 Pass and and 1 Advanced or (*c*) 6 Pass subjects. In 1918 a Certif. in Dent. Surg. was established. In 1919 English Lang. and Lit. was made a separate subject for honours. A B.Sc. degree in Forestry was instituted in 1920.

FINANCE. Grant to Univ. raised from £3000 to £4000 and Grants to Colleges substantially increased. SCHOLARSHIPS: Post-graduate, in Arts, instituted in 1918 and increased from £150 to £200 p.a. (tenable 2 yrs.) in 1920. Travelling scholp. in French, £200, estabd. in 1920.

DEGREES CONFERRED, 1919 and 1920. B.A.—55, 65; B.Sc.—7, 13; LL.B.—12, 16; M.B., Ch.B.—23, 43; B.D.S.—2, 2; B.Com.—4, 1; B.E.—1, 4; B.Sc. Home Sc.—5, 2; M.A., M.Sc., and LL.M.—28, 36; Litt.D., D.Sc., and M.D.—8, 0.

UNIVERSITY OF OTAGO, DUNEDIN

VISITOR—H.E. THE GOVERNOR-GENERAL.
CHANCELLOR—ANDREW CAMERON, B.A., LL.D.
VICE-CHANCELLOR—Sir J. ROBERTS, K.C.M.G.
REGISTRAR—H. CHAPMAN, B.A.

PROFESSORS, LECTURERS, ETC.

Accountancy
Reid, G. W., B.Com. Lectr.

Accountancy Law [Lectr.
Paterson, J. M., M.A., LL.B.

Anatomy
Gowland, W. P., M.D., B.S. Lond., F.R.C.S. Eng. Prof.

Biology
Benham, W. B., M.A. Ox., D.Sc. Lond., F.R.S. Prof.

Chemistry
Inglis, J. K. H., M.A., B.Sc., D.Sc. Edin., F.I.C. Prof.
Carter, C. L., M.Sc. Asst. Lectr.

Classics
Adams, T. D., M.A. Prof.
Turnbull, Mary I., M.A. Asst.

Dentistry
Pickerill, H. P., M.D., Ch.B., M.D.S., L.D.S. Eng. Prof.
Bell, R. C., B.D.S. Prof. (Clin. D.).

Domestic Arts
Strong, Ann G., B.Sc. Prof.

Economics
Pringle, W. H., M.A. Prof.

Education
Pinder, E., M.A. Lectr.

Engineering v. Mining

English Lang. and Lit.
Ramsay, H. Prof.
Clement, Bertha, M.A. Asst.

Ethnology
Skinner, H. D., Dip.Anth.Camb., B.A. Lectr.

Geology and Mineralogy
Benson, W. N., B.A. Camb., D.Sc. Syd., F.G.S. Prof.

Hebrew
Cumming, J., M.A., D.D Lectr.

History
Elder, J. R., M.A., Litt D. Prof.

History, Constitutional
Lang, J., M.A., LL.B. Lectr.

Home Science
Rawson, G. Helen Prof.

Law [Lectr.
Stephens, A. C., LL.B. (Contracts)
Neill, A. G. (Crim. Law & Prop.) Lectr.
Adams, H. S., M.A. (Evidence) Lectr.
Hay, W. G., LL.M. (Jurispr.) Lectr.
Cook, H. L., LL.B. (Property) Lectr.
Adams, F. B., B.A., LL.M. (Property) Lectr.
White, C. G., B.A., LL.B. (Proc.) Lectr.
Callan, J. B., B.A., LL.B. (Torts) Lectr.

Mathematics, Pure and Applied
Bell, R. J. T., M.A., D.Sc. Glas. Prof.

Metallurgy and Assaying
Waters, D. B., A.O.S.M. Prof.

Mining
Park, J., M.A.I.M.E., M.I.M.M., F.G.S. Prof.

Modern Languages
Thompson, G. E., M.A. Prof.

Philosophy, Ment. and Moral
Dunlop, F. W., Ph.D. Jena, M.A. Prof.

Physics
Jack, R., M.A., D.Sc. Glas., Ph.D. Gött. Prof.
Hinton, J. W., M.Sc. Lectr.

Physiology [Prof.
Malcolm, J., M.D., Ch.B. Edin.
Milligan, R. R. D., M.B., Ch.B., Lectr.

Medicine

Bacteriology and Pub. Health
Champtaloup, S. T., M.B., Ch.B. Edin., B.Sc., D.P.H. Prof.
Cameron, Gladys C. M., M.Sc. Lectr.

Clin. Med. and Clin. Surg.
The Hon. Staff of the Dunedin Hospl. Lectrs.

Clin. Med. and Therap.
Fitchett, F. W. B., M.D., C.M. Edin. Prof.

Dis. of Children
Williams, E. H., M.B., Ch.B., M.R.C.S. Eng. Lectr.

Ear, Nose, and Throat
Hall, A. J., M.B., Ch.B., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

Medicine, Practice of [Prof.
Carmalt-Jones, D. W., M.A., M.D., B.Ch. Ox., F.R.C.P. Lond.
Bowie, J. T., M.B., C.M. Edin., D.T.M. Liv., D.P.H. Tutor.

Mental Diseases
King, F. Truby, C.M.G., M.B., C.M., B.Sc.Edin. Lectr.

Midwifery and Gynæc.
Riley, F. R., F.R.C.S. Eng., L.R.C.P. Lond. Lectr.
Ritchie, R. I., M.B., Ch.B., M.R.C.S. Eng., L.R.C.P. Lond. Tutor.

Ophthalmology [Prof.
Ferguson, H. L., C.M G., M.A., M.D. Dub., F.R.C.S.I., L.K.Q.C.P.I.

Pathology
Drennan, A. M., M.B., Ch.B., F.R.C.P. Edin. Prof.

Surgery
Barnett, L. E., C.M.G., M.B., C.M. Edin., F.R C.S. Eng. Prof.
Newlands, W., M.B., Ch.B. Edin., M.A., B.Sc., F.R.C.S. Edin. Lectr.
White, J. R., M.B., F.R.C.S. Edin. Tutor.
Fergus, T., M.B., F.R.C.S. Edin. Tutor.

GENERAL INFORMATION

Founded by Ordinance of the Provincial Council in 1869 with power to grant degrees in Art, Medicine, and Law, the Univ. was opened in 1871. The Law School originated in 1873, the Medical in 1874, the School of Mines in 1878, the Dental School in 1907, the Accountancy Lectures and the Home Science Dept. in 1911. Between 1869 and 1877 the Univ. received grants of land exceeding 220,000 acres. It is entirely unconnected with any religious denomination except that the right of nomination to certain Chairs endowed by the Presbyterian Church rests with the Board of Church Property, subject to the approval of the Synod.

By an agreement effected in 1874 the Univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of N.Z.

LIBRARY, 15,000 vols.: also the Hocken collection of pamphlets and MSS. bearing on the History of N.Z. MUSEUMS: Biol., Ethnog., Geol., Anat., Path. LABORATORIES: Phys., Chem., Physiol., Bact., Path.

FACULTIES. Arts & Science, Medicine, Dentistry, Mining, Law and Commerce, Home Science.

COURSES for degrees in all the Faculties, D.P.H.; Certif. in Dent. Surg.; Associateship of Otago School of Mines (A.O.S.M.), 4 yrs.; Diploma of Land and Mine Surveyor, 2 yrs.; Associateship in Home Science, 3 or 2 yrs.

HOSTELS. Presbyterian for men and women, Anglican for men; Home Science Students'. Cost of board and lodging, 21s. to 30s. a week.

UNIV. EXTENSION. Since 1916 classes in connection with the W.E.A. in Dunedin and Invercargill have met with very great success.

THE YEAR 1919–20

BENEFACTIONS. Sir J. Roberts, £1000, and H. L. Ferguson, £1000, for Med. Research; L. E. Barnett, £1000 for Med. School; Sir R. and Lady Stout, £1000 for Scholp. in Econ.; £2500 for Ethnology; Mrs. Oliver bequest, £2000. Govt. subsidy, £1 for £1 of each of above.

NEW BUILDINGS. School of Home Science (£10,000).

NEW CHAIRS. Combined Chairs of Hist. and Econ. and of Home Sc. and Dom. Arts have been dissevered.

NUMBER OF STUDENTS. Preparing for first degrees in Arts, 244, including 150 women; Med., 312 (52 women); Dentistry, 54 (7 women); Law, 40 men; Home Science, 62 women; other faculties, 98. Graduates working for M.A. or M.Sc., 46. Occasional, 247.

DEATH. T. Gilray, Prof. of Engl. RETIREMENT. Winifred L. Boys-Smith, Prof. of Home Sc., etc.

UNIV. EXTENSION classes, 14; attendance, 301.

CANTERBURY COLLEGE, CHRISTCHURCH

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF BOARD OF GOVERNORS—H. D. ACLAND, B.A.

REGISTRAR—L. A. STRINGER.

PROFESSORS, LECTURERS, ETC.

Accounting, etc. [Asst. Lectr.
Morrison, J., F.I.A.N.Z.
Mosley, C. T. Asst.

Biology
Chilton, C., M.B., C.M. Edin., Hon. LL.D. Aberd., M.A., D.Sc., F.L.S. Prof.
Foweraker, C. E., M.A. Demr.

Chemistry
Evans, W. P., M.A., Ph.D. Gies., M.S.C.I. Lond. Prof.
Page, S., B.Sc. Demr.

Classics [Prof.
Stewart, H., C.M.G., M.A. Camb.
Cane, T. W., M A. (also in Engl.) Asst.

Economics, v. also History
..... Prof.

Education
Shelley, J., M.A. Camb. Prof.
Purchase, J. E., M.A. Lectr.

Engineering
Scott, R. J., M.I.C.E., M.I.M.E., F.A.I.E.E. Prof.
Bamford, P. G., B.E. Demr.
Wright, W. S. Demr.
Morrison, A. F. Demr.
Powell, P. H., M.Sc. Manc., M.Eng. Liv., M.I.E.E. (Elec. E.) Lectr.
Steele, S., B.Sc.Eng. (Mech. E.) Lectr.
Robinson, W. F., F.R.G.S. (Surveying, etc.) Lectr.

English, v. also Classics [Prof.
Wall, A., M.A. Lond., B.A. Camb.

French and German
Blunt, T. G. R., M.A. Ox. Prof.
White, J. F. D., M.A. (French) Asst.

Geology & Geography [Lectr.
Speight, R., M.A , M.Sc., F.G.S.

History
Hight, J., M.A., Lit.D. Prof.
Condliffe, J. B., M.A., F R E.S. (*Economics*) Asst. Lectr.

Law
Murphy, T. A., M.A., LL.B. Lectr.
Rowe, T. W., M.A., LL.B. Asst. Lectr.

Mathematics and Nat. Philos.
Gabbatt, J. P., M.A. Camb., M.Sc. Manc. and Liv. Prof.
Darwin, L. J., M.A. Adel. Asst. Lectr.

Music [Lectr.
Bradshaw, J. C., Mus.D. Manc., F.R.C.O., L.R.A.M., A.R.C.M.

Philosophy, Mental and Moral
Salmond, C. F., M.A. Prof.

Physics [Prof.
Farr, C. C., D.Sc. Adel., A.M.I.C.E.
Macleod, D. B., M.A., B.Sc. Demr.

GENERAL INFORMATION

Created by Provincial Ordinance, and affiliated to the Univ. of N.Z., 1873. Govt. endowments—£179,000, including £83,000 for the High Schools, School of Art, Museum, and Public Library controlled by the Board of Govrs. Annual grants—£6000, including £2000 for *Engineering*, the only recognized School of Engin. in N.Z.

DEGREE COURSES in Arts, Science, Mus., Com., and Engin., and Certif. courses in Engin. (3 yrs.) and Com. (2 yrs.). Evening courses in Mech. and Elec. Engin.

LABORATORIES. Biol., Chem., Engin., Phys.

THE YEAR 1919–20

BENEFACTIONS. Former pupils of late C. Cook, £550 for scholp.; R. Bell, £1000 (instalment of £3000) for scholps. in practical Journalism; Prof. J. Macmillan-Brown, £1000 for bursaries.

NEW BUILDINGS, ETC. Building and site acquired for Hostel for men, £10,200.

NEW POSTS. Chairs of Educn. and Economics.

NUMBER OF STUDENTS in 1919, 512, of whom 276 were women; these figures include non-matriculated students—66 men, 90 women. In addition there were in the Sch. of Engin. and Tech. Sc. 31 matriculated and 177 non-matric. In 1920 students pursuing full degree courses numbered 281, including 65 women; of these 142 (57 w.) were in the Arts Faculty, 22 Sc., 61 Law, 18 Com., 27 Engin., 6 Med., 1 Dent., 5 Agric., 1 Home Sc.

EXTERNAL WORK. 2 new Tutorial Classes and 3 Study Circles formed.

AUCKLAND UNIVERSITY COLLEGE

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—HON. G. FOWLDS.

REGISTRAR—A B. CHAPPELL, M.A.

Accounting, etc.
Seaman, A. M. Lectr.

Architecture
Cumming, W. A. Lectr.
Morran, H. S., A.R.I.B.A. (Building Constn) Lectr.

Biology [Prof.
Johnson, J. C., M.A , M Sc , M B , B.Ch., N.U.I., Litt.D , F Z S.
McGregor, W. R. Demr.

Botany
Lancaster, T. L., B Sc. Asst. Lectr.

Chemistry
Worley, F. P., D Sc. Lond., M A , M.Sc., D.I C., F.C.S. Prof.
Bowell, A. H., F.C.S. Demr.
Short, W. F., M Sc. Demr.

Classics [Prof.
Dettmann, H. S., B.A. Syd., M A., B.C.L. Ox., Hon. M.A. Adel.
Sinclair, N. T., B.A. Asst. Lectr.

Dental Anatomy
Carter, A. M. Lectr.

Education
Cousins, H. G., M.A. Lectr.

Engineering
Lamb, S. E., B.Sc. Lond. A.R.C.S. Eng., A.M.I.M.E. (Applied Mechanics, etc) Lectr.
..... (Elec. E., etc.) Lectr.
Gray, W. S., B A.I. Dub. (Civil E., etc.) Lectr.
McLaren, E. J. R. Demr.

English
Egerton, C. W , M A. Dub. Prof.
Ardern, P. S. B A. Ox , M.A. Asst. Lectr.

Geology [Lectr.
Bartrum J. A., M.Sc , A.O.S M.

History and Economics
Grossmann, J. P., M.A. Prof.

Law
Algie, R. M , LL M Prof.
Grey, P., LL.B. Asst. Lectr.
Tuck, W.R., M.A., LL M. Asst. Lectr.

Mathematics
Segar, H. W., M A. Camb. Prof.

Mental Science
Anderson, W., M.A. Glas. Prof.

Modern Languages
Walker, M., M.A., B.Com. Prof.

Music
Thomas, W. E., Mus.D. Ox. Prof.

Physics
Burbidge, P. W., M.Sc. Prof.
Salt, G McB , B.Sc. Demr.

GENERAL INFORMATION

Established by Act of the N.Z. Legislature in 1882, the College was affiliated to the Univ. of N.Z. in 1883. It received in 1885 an endowment of 30,000 acres of land, of which one-third was sold in 1915 for £10,246. It receives an annual grant of £9000.

Of the 14 members of the College Council 3 are appointed by the Governor, 2 by the Prof. Board, 1 by local bodies, 4 are elected by the graduates, and 3 by the Auckland members of the General Assembly.

COURSES are provided for the degrees of the Univ. in Arts, Science (including B.Sc. in Archit.), Law, Music, Commerce, and for the Associateship of the College in Commerce (2 yrs. course) and in Engineering (3 yrs.).

PUBLICATION. *Calendar* (Feb.), 1s.

THE YEAR 1920. A site of 3 acres was granted by Govt. for new buildings, cost of which will be £100,000. New Chair of Mental Science and School of Civil and Elec. Engin. *Number of students*: Undergraduates 472, including 127 women; total, including non-matriculated, 821 (292 women). *Resignations*: F. N. Bamford, A. J. Hunter, S. Cory-Wright, W. Wilson.

VICTORIA UNIVERSITY COLLEGE, WELLINGTON

[No returns received since April 1920.]

VISITOR—THE MINISTER OF EDUCATION
CHAIRMAN OF COUNCIL—C. WATSON, B A
REGISTRAR—G. G S. ROBISON, M A

PROFESSORS, LECTURERS, ETC.

Biology
Kirk, H. B., M.A Prof.
Pigott, Ellen, M.A. Asst & Demr

Chemistry
Robertson, P. H., M.A. Ox., Ph D. Leip., M.Sc. Prof.
..... Asst & Demr

Classics
Brown, J. R, M.A Ox. and St. And. Prof
Ward, W. F, M A., LL B. Asst.

Economics [Prof
Murphy, B E, M.A. B Com., LL.B. (E., Hist & Geog)

Education
Tennant, J. S, M A., B.Sc. Lectr.
Hetherington, Jessie H, M A, Asst.

English Language & Lit. [Prof.
Mackenzie, H., M.A. St. And
Watson, I. Evelyn S., M.A. Asst.

Geology
Cotton, C. A., D.Sc, A O.S.M, F.G.S. Lectr.

History
Wilson, F. P, M A Lectr.

Law, Roman, etc. [Prof.
Adamson, J., M.A, LL.B. Edin.

Law, English and N.Z [Prof.
Garrow, J. M. E., B.A., LL.B.
McKay, Georgina Asst.

Law, Crim., Evidence, etc. [Lectr.
Watson, G G. G, M.A., LL B.

Mathematics
Sommerville, D M. Y., M A, D.Sc. St. And Prof.
Macleod, D, M.A Glas., B.Sc Asst & Instr.
Thompson, R D, M A, B Sc Asst. & Instr.

Modern Languages
Wilson, E J., M A., B.Sc. Prof.

Philosophy, Mental and Moral
Hunter, T. A., M A., M.Sc. Prof.
Woodhouse, Iris H, M A Asst. & Demr.

Physics
Marsden, E., D.Sc Manc. Prof.
Fenton, Ethel W. J., B.Sc. Asst. & Demr.

GENERAL INFORMATION

Established by Act of the N.Z. Legislature, 1897, and affiliated to the Univ. of N.Z., 1899. Endowed by Govt. with 4000 acres. College buildings, towards which Govt. gave £31,000, were opened in 1906. Annual grants £5000, including £2000 for *Law* and *Science*.

Full Degree *Courses* are provided in Arts, Science, Law, and Com., and the earlier stages in other Faculties.

THE YEARS 1916–19

BENEFACTIONS. S.A. Rhodes Trustees, £1750. A. Hudson and other donors, £265 for Scientific Research. *New Chair* of Economics.

NEW BUILDING for Econ. and Library.

NUMBER OF STUDENTS. For degrees and diplomas, 269, 302, 425; Occasional 51, 69, 95. Degrees obtained: B.A., 16, 15, 18 (including 8, 9, 16 women) B.Sc., 7, 1, 0; LL.B., 3, 12, 6 (0, 1, 1, women); B.Com., 0, 0, 2; Higher degrees 8, 12, 7 (4, 5, 4 women).

DEATH. Mrs. Macphail, Lectr. in French, 1918.

UNIVERSITIES OF THE UNION OF SOUTH AFRICA

UNIVERSITY OF SOUTH AFRICA, PRETORIA (formerly the Univ. of the Cape of Good Hope), with 6 CONSTITUENT COLLEGES.

UNIVERSITY OF STELLENBOSCH (formerly Victoria College, Stellenbosch).

UNIVERSITY OF CAPE TOWN (formerly South African College, Cape Town).

HISTORICAL SUMMARY (for which the Bureau is indebted to Professor Ritchie of Cape Town). The history of higher education in S. Africa covers but a comparatively short period of time. It may be said to have had its beginnings when, in 1829, the S. African College (now incorporated in the Univ. of Cape Town) was founded, as a proprietary institution, by a number of progressive citizens of Cape Town, assisted by subscribers from various parts of the country. This institution was, at its inception and for a long time afterwards, not much more than a higher class school, but it had within it the possibilities of growth and started with very high aims. It had a very chequered history for some time, and was on more than one occasion in danger of extinction, but it gradually acquired a stronger position on ceasing to be a proprietary institution and receiving support from the public funds. For 20 years it remained the only educational establishment in S. Africa which aspired to anything beyond the range of elementary education, but in 1849 a rival College (the Diocesan) was started under the ægis of the Episcopalian Church at Rondebosch, a suburb of Cape Town. A few years later, in 1855, a somewhat similar College, St. Andrew's, was founded in Grahamstown, in the eastern part of the Cape Colony. Under the Governorship of Sir George Grey there was founded, in 1858, the Grey College at Bloemfontein in the Orange Free State, the first attempt at higher education beyond the borders of the then Cape Colony. None of these Colleges were well equipped, and most of the work done by them was school work rather than Univ. work, but they gradually acquired a growing influence and formed centres at which development was only a question of time. A very strong impetus in the direction of higher education was given in 1858 by the establishment of a Board of Examiners in Literature and Science. This Board had in view in the first instance the testing by means of examination of the competency of candidates for the Civil Service and public offices, but it soon extended its scope and started examinations on more distinctively Univ. lines, corresponding roughly to Matricn., B.A., and M.A. The competition between the existing Colleges caused by these examns. had

undoubtedly a strong influence on the growth of these Colleges and the greater attention paid to subjects beyond the mere school range. This Board continued to exist until 1873, when a successful attempt was made to institute a Univ. for S. Africa. The Univ. of the Cape of Good Hope, which was then founded, continued to exist until the beginning of 1918, when it was transformed into the Univ. of S. Africa, with its administrative seat at Pretoria. This Univ. was modelled on the lines of the London Univ., as then existing, as a purely examining body. It was governed by a Council, half of whose members were nominated by the Government, half elected by the members of Convocation. It had no constitutional connexion with the Colleges which prepared students for its examns.; but the members of the Council who were elected by Convocation tended gradually to be almost entirely members of the teaching staffs of the various Colleges. In this indirect fashion the Colleges had a considerable influence on the development of the Univ. and the extension of the range and scope of its examns. Almost at the same time as the founding of the Univ. of the Cape of Good Hope there was passed by the Cape Parliament a Higher Education Act, which gave definite salary grants to the professors at recognized Colleges. This Act, together with the new impulse given to higher education by the new Univ., had a very marked influence on the development of the Colleges, which now began to increase in staff and numbers of students. The new College of Stellenbosch (afterwards the Victoria College and now the Univ. of Stellenbosch) was founded in 1874, and grew very rapidly, until it was a formidable rival of the older College at Cape Town. Other Colleges were founded also at Somerset East (Gill College) and Port Elizabeth (Grey Institute), but these had only a very short term of life. At a considerably later period, as S. Africa grew in population and wealth, other Colleges sprang into existence. A College for women (the Huguenot College) was founded at Wellington in 1898. In 1904 St. Andrew's College at Grahamstown separated its College department from its school, and the former became incorporated as the Rhodes College. In the same year was founded at Johannesburg an Institute, designed in the first instance for instruction in mining but afterwards developed into a College for higher education generally, and now (1920) aspiring to become an independent Univ. In 1908 a Univ. College was founded at Pretoria, and in 1909 a similar College was instituted at Pietermaritzburg, Natal.

In 1904 there began a movement for the institution of a teaching, in place of the examining, Univ., and the controversy regarding the rival claims of a federal and a single-college Univ. continued for a number of years. An Inter-Colonial Conference on Univ. Education in 1908 reported in favour of a federal scheme, but nothing came of its decision. A new factor in favour of a teaching Univ. was introduced by the munificent gifts for this purpose of Mr. Alfred Beit, his brother, Mr. (now Sir) Otto Beit, and Sir Julius Wernher. In consequence of these gifts, various attempts were made by the Government to solve the knotty question of reconciling claims of the existing Colleges with the institution of one or more teaching Univs. A parliamentary com-

mittee deliberated on the subject in 1913, and a Commission was appointed in the same year and, after taking evidence, issued its report in 1914. This Commission proposed two Univs., one consisting of a federation of the S. African College and the Victoria College, the other of a federation of the remaining Colleges (Rhodes College being allowed the choice of joining whichever federation it pleased), but the proposal led to no practical result, chiefly owing to the objection on the part of the two oldest and strongest colleges, at Cape Town and Stellenbosch, to the loss of their independence. The problem was at length solved in 1916 by giving charters to both the S African College and the Victoria College, and by the reincorporation of the old Univ. of the Cape of Good Hope as a federal Univ. embracing all the other Colleges under the name of the Univ of S. Africa.

The three Acts passed by the Union of S. Africa in 1916 were to the following effect:

I. The Univ. of the Cape of Good Hope became the Univ. of South Africa, with its administrative seat at Pretoria.

II. The South African College became the Univ. of Cape Town, with which is incorporated the S. African College. Its seat is to be upon the Groote Schuur estate on the eastern slopes of Table Mountain.

III. The Victoria College, Stellenbosch, became the Univ. of Stellenbosch, with its seat in the division of Stellenbosch in the Province of the Cape of Good Hope.

The Faculties of the Univ. of Stellenbosch are defined as—Arts, Science, Education, Agric., Law, Music; of the Univ. of Cape Town as—Arts, Science, Medicine, Law, Engineering, Education; of the Univ. of South Africa the Faculties are not defined, but permission is given to each of the constituent Colleges to establish such faculties or depts. as it may deem fit; provided that it shall not, without the consent of the Govr.-General, apply towards the maintenance of a faculty or dept. not established at the commencement of this Act any money granted to the College from public funds. A schedule is appended to the Act stating that professional examns. will be conducted in Law and Jurisprudence, in Civil Service Law, and in the Theory of Land Surveying.

Each of the three Univs. is governed by Council, Senate, and Convocation. The Senate of the Univ. of South Africa consists of the Professors and Lecturers of the constituent Colleges who are heads of such departments as are recognized by the University Council; the Senate of the Univ. of Stellenbosch and of the Univ. of Cape Town consists in each case of the Principal, the Vice-Chancellor, two additional members of the Council appointed for a prescribed period, and the Professors of the Univ.

A JOINT MATRICULATION BOARD (address—P.O. Box 392 Pretoria) has been constituted to control and conduct the Matricn. examns. of all three Univs. The examns. are held in June and Dec. The subjects are grouped thus: (1) English, Dutch; (2) Maths.; (3) Latin, Greek, French, German; (4) Physics, Chem., Bot., Zool., Geol.; (5) Hist., Geog., English, Dutch, Hebrew, addl. subject from 3 or 4; (6)

Agric. Sc., Practical Maths., Mechanics, Bookkeeping and Comml. Arith., Shorthand and Typewriting, Drawing, Geom. Drawing, Domestic Sc., Music, addl. lang, addl. subject from 5. One subject must be selected from group 1; and either one from each of the other groups, or four selected from the groups 1 to 5 in such a way that not more than one of the groups 2, 3, 4, 5 is omitted

CONFERENCE. The Vice-Chancellors of the 3 Univs. acting as a Joint Committee (known as *The Vice-Chancellors' Committee*) have, in the exercise of powers conferred by the above-mentioned Acts, made joint statutes and regulations relating to the Joint Matricn. Board, the Joint Committee for the control and conduct of certain professional examns., the administration of certain scholarships, the admission of registered students of any one of the 3 Univs. to either of the others as registered students, and a minimum period of attendance and minimum fees for the Degree of Bachelor. They have power to legislate for any other matters of common interest.

The professional examns. in question are those for the Certifs. of proficiency in Law and Jurispr., and in the Theory of Land Surveying; the Civil Service Law examns.; the Law Certif. examns. of the Transvaal, Orange Free State, and Natal; and the Civil Service Higher Law examns.

TERMS. The academic year is usually divided into 4 terms, beginning in Feb. or March and ending Nov. or Dec.

UNIVERSITY OF CAPE TOWN

with which is incorporated the

SOUTH AFRICAN COLLEGE

VISITOR—THE GOVERNOR-GENERAL.
CHANCELLOR—THE PRINCE OF WALES.
VICE-CHANCELLOR—PRINCIPAL Sir J. C. BEATTIE, D.Sc., F.R S E.
PRESIDENT OF CONVOCATION—ADVOCATE R. W. CLOSE, K C., B.A., LL.B., M.L.A.
CHAIRMAN OF COUNCIL—J. M. RUSSELL, M A., B D.
REGISTRAR—W. G. R MURRAY, M.A

PROFESSORS, LECTURERS, ETC.

African Life and Languages
Norton, W. A., M.A., B.Litt. Ox. Prof. of *Bantu Philology.*
..... Prof of *Soc. Anthrop.*
..... Lectr. in *Phonetics.*

Afrikaans, v. Nederlands

Anatomy
Drennan, M. R., M A., M.B., Ch.B. Edin. Prof.
..... Lectr.
..... Demr.
Gordon, L., M D., F R C S. Edin. Demr.
Lurie, D., B.A. Demr.

Bacteriology
Mackie, T. J., M B Glas., D.P.H. Ox. Prof.
Gie, J. C., M.B. Lond., M.R.C.S. Lectr.

Botany
Compton, R. H., M.A. Camb. Prof. and Dir. of National Bot. Gardens.
Thoday, D., M.A. Camb. Prof.
Stephens, Miss E. L., B.A., F.L.S. Sr. Lectr.
Michell, Miss M., B.A. Lectr.
Bolus, Mrs. F., B.A. Curator of Bolus Herbarium.

Chemistry
Tietz, H., M.A. Cape, Ph.D. Berl. (Organic) Prof.
Newbery, E., D Sc. Manc., F.I.C. (Physical) Prof.
..... (Inorganic) Prof.
Copeman, P. R. v. d. Riet, B.A. Cape, B.Sc. Edin. Lectr.
Sutherland, N. Demr.
van Niekerk, S. K. Demr.
van Heerde, P., B A. Demr.

Classics
le Roux, T., M.A., Litt.D. Amst. Prof. (Gk.).
Farrington, B., M.A. N.U.I. Lectr. (Gk.).
Ritchie, W., M.A. Aberd., M.A. Ox. Prof. (Latin & Class. Philol.).
Haarhoff, T., B.A., B.Litt. Ox. Sr. Lectr. (Latin, etc.).

Dutch, v. Nederlands

Economics
Leslie, R., M.A. Edin. Prof.

Education
Clarke, F., M.A. Ox. Prof.
Scrimgeour, A. C. S., M.A. Edin. (Method) Prof.

Burger, J F., B.A. Lectr.
Hugo, T. J., B.A., Phil.D. Grönin-
gen Sr. Lectr.
Jamieson, J. N., M.A. St. And.
Sr. Lectr.

Electrotechnics [Prof.
Bohle, H., M.V.D.E., M.I.E.E.
Rogers, A. H. E., A.C.G.I. Lond.
Sr. Lectr.

Engineering, Civil
Snape, A. E., M.Sc. Manc.,
A.M.I C.E., F.R.San.I. Prof.
Stewart, G. S., A.M.I.C.E.
Sr. Lectr.

Engineering, Mechanical [Prof.
McMillan, D., A.R.T.C., A.M.I.M.E.
Weaver, W. G., A.M.I.M.E.
Sr. Lectr.
Brooks, J. J., A.R.C.S. Lectr.

English [Prof. (E. Lit.).
Clark, J., M.A., LL.D. St. And.
Mackie, W. S., M.A.
Prof. (E. Lang.).
Greenlees, Miss M., B.A. Lectr.

Ethics and Politics
Malan, G. H., M.A. Cape, D.Phil.
Glas. Prof.

French and German
Logeman, W. S., L.H.C Utr Prof.
Nauta, R. D , O.A. Prof.

Geology v. Mineralogy

Hebrew
Bender, A. P., M.A. Camb. Prof.

History
Walker, E. A., M.A. Ox. Prof.
Mandelbrote, H., M.A., B.A. Ox.
Lectr.

Law
Wille, G., B.A., LL.B. Camb.
Prof.
Howes, R. B., M.A., LL.D.
Dub., LL.B. Lectr.
Sutton, G. G., LL.B. Camb., B.A.
Lectr.
Davis, R. P., B.A., B.A Ox. Lectr.
Reid, F., B.A. Ox. Lectr.

Mathematics, Pure
Crawford, L., M.A. Camb., D.Sc.
Glas. Prof.
Kent, T. P., M.A. Ox. Prof.
..... Asst.

Mathematics, Applied
Brown, A., M.A. Camb., M.A ,
B.Sc. Edin. Prof.
v. d. Lingen, J. Steph., B.A.
Sr. Lectr.

Mineralogy and Geology
Young, A., M.A., D.Sc. Edin. Prof.
Walker, A. R. E., B.Sc. Lond.,
A.R.C.S Lond. Sr. Lectr.

Music
Bell, W. H., F.R.A.M. Prof.

Nederlands en Afrikaans
du Toit, P. J., M.A. Cape, Ph.D.
Ghent Prof. (Lang).
Botha, M. C., M.A.
Acting Prof. (Lit.).
Reynolds, J., M.A. Acting Lectr.

Philosophy, v. also Ethics [Prof.
Reyburn, H., M.A., D.Phil. Glas.
..... Lectr.

Physics
Ogg, A., M.A., B.Sc. Aber., Ph.D.
Gött. Prof.
Simons, L., B.Sc. Lond. Sr. Lectr.
van der Merwe, C. W., B.A. Lectr.
Rees, D. W., B.A. Demr.

Physiology
Jolly, W. A., M.B., Ch.B., D.Sc.
Edin. Prof.
Battaerd, P., M.D. Leyden
Sr. Lectr.
Shiskin, Miss C., B.A. Cape, M.B.
Edin. Lectr.
..... Demr.

Politics v. Ethics

Zoology [Prof.
Gilchrist, J. D. F., M.A., D.Sc.
Edin., Ph.D. Zür., F.L.S.
von Bonde, C., M.A. Lectr.

Medicine

Med. Jurisprudence
Engelback, H. A., M.B. Dub. Lectr.

Medicine
Falconer, A. W., C.B.E., M.D. Aber., M.R.C.P. Prof.

Medicine, Clinical
Ketchen, A. D., M.B. Lond., M.R.C.S. Lectr.
Marais, D. P., M.D. Edin. Lectr.

Mental Diseases
Cassidy, C. G., M.B., C.M. Edin. Lectr.

Obstetrics and Gynæcology
Crichton, E. C., B.A., M.B., B.A.O., B.Ch. Dub. Prof.

Obstetrics, Clinical
Simpson Wells, A., M.D. Glas., F.R.C.S.E. Lectr.

Pathology
Bartlett, G B., B.A., M.B. Camb., M.R.C S. Prof.
..... Lectr.

Pharmacology [Prof.
Gunn, J. W. C., M.B , Ch.B. Edin.
..... Lectr.

Public Health [Prof.
Anderson, A. J., M.A., M.B. Ox , M.R.C.S., D.P.H. Camb.

Surgery
Saint, C F M., C.B E., M.D., M.S. Durh., F.R.C.S. Prof

Surgery, Clinical
Elliott, C. C., M.D., M.R.C S. Lectr.
Fuller, E. B., M.B., F.R.C.S.E Lectr.
McLachlan, A. R., F.R.C.S. Lectr.

Vaccination
Molteno, V. G., M B. Lectr.

GENERAL INFORMATION (v. also p. 388)

The University of Cape Town, created by Act 14 of 1916, came into legal existence on April 2, 1918, when the Council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Mr. Otto Beit, who added £50,000 to a lapsed bequest by Mr. Alfred Beit. The S. African College, opened in 1829 as a private venture, became a public institution in 1837. In 1895 classes were opened in mining engineering. In 1900 the matriculation classes were transferred to the College school and the College confined itself to University teaching. In 1902 £40,000 was collected from past students and others, and courses for medical students and civil, mechanical, and electrical engineers were begun. Provision was made in 1910 for post-graduate courses for the training of teachers, in 1917 for the third year of medical study, and in 1918 for a complete medical course.

A site for the University has been provided by Government at Groote Schuur, a suburb of Cape Town. Pending the erection of buildings there those formerly occupied by the Univ. of the Cape of Good Hope have been rented.

LIBRARY, 12,000 vols. Access to S.A. Public Library, 100,000 vols., specially well equipped in Bot. and Zool. Depts. Also Bolus Bot. Library and (for students of Teaching) the Library of the Educn. Dept. The Bolus HERBARIUM includes Guthrie collection of Cape Flora. The S.A. MUSEUM of Nat. Science adjoins the Univ. grounds. MARINE BIOL. LABORATORY at St. James'.

FACULTIES. Arts, Science, Engineering, Law, Medicine, Education.

DEGREE COURSES. B.A., 3 yrs.; LL.B., 4 yrs.; B.Sc. (in Engin.), 4 yrs.; M.B., Ch.B., 6 yrs.; M.A., 1 yr.; M.Sc., 2 yrs. The M.A. and M.Sc. courses are open to graduates of any approved Univ.; so also are courses for the

D.Litt., D.Phil., and D.Sc., for which attendance for 2 yrs. may be required. Under certain conditions the M.Sc. may be conferred on non-graduates after 3 yrs. attendance. The LL.M. is open to LL.B. after 2 yrs. attendance; the LL.D. is open to LL.B. or LL.M.

OTHER COURSES. For Teachers' Certificates—Secondary Higher, Sec. Lower, Primary Higher; Law Certif., Land Surveying, Civil Service Law examn., Dentistry (preliminary subjects), and for students of Agric. and Theol. proposing to graduate in those subjects elsewhere.

RECOGNITION OF AND BY OTHER INSTITUTIONS. Attendance in Stellenbosch and the constituent Colls. of the Univ. of S. Africa is accepted under certain conditions as part of the attendance qualifying for degrees. Attendance on classes in Physics, Chem., Bot., and Zool. are accepted by Aberd., Bris., Durh., Edin., Glas, Liv., Manc., Dub., R.C.P. Lond., R.C.S. Eng.; so also are examns. in the Faculty of Arts on the special courses in these subjects (except by Dub.). Attendance on courses in Anat. and Physiol. is accepted by Aberd., Durh., Edin., and Glas., R.C.P. Lond., and R.C.S. Eng.; examns. in the Faculty of Arts in these subjects are accepted by Aberd. (v. also pp. 225 and 253). The Dentistry course is recognized by the R.C.S. Eng., R.C.P.S. Edin., and Edin. Dental School; the Hygiene course by the Conjoint Boards of Eng., Ire., Edin., and Glas.

FEES. For tuition, excluding laboratory fees, annually: Arts or Law, £14 to £26 (Law Certif., £8); Science, £28 to £32 (M.Sc., £4); Med., £24 to £32; Teaching, £8 to £12; Surveying, £20 to £24. Examn. fees, minimum: B.A., £9; B.Sc. Engin., £17; LL.B., £20; M.A., £3.

SCHOLARSHIPS OPEN TO GRADUATES OF THE UNIV. Jamison, Croll, Porter, George Grey, Donald Currie, Willem Hiddingh, H.B. Webb, and several others, of £150 and £200 p.a., tenable generally for 3 yrs., and awarded from time to time after the M.A. examns. £120 p.a. for 2 yrs., awarded annually after the B.Sc. (Engin.) examn.

Travelling concessions to students are granted by the Union-Castle S.S. Coy. and (except to law students and married persons) by the Union Railways.

RESIDENCE. Hostels for 180 men and 80 women. Board and residence, £60 p.a.

PUBLICATIONS. *Calendar* (Dec.); Students' Repve. Council's *University Quarterly*; *Annals of the Bolus Herbarium*.

THE YEAR 1919–20

BENEFACTIONS. Public contributions to Development Fund up to Nov. 1920, £220,000, including: J. W. Jagger and De Beers Consol. Mines, each £30,000; Garlicks, Ltd., and Max Michaelis, each £20,000; Standard Bank of S.A. and Nat. Bank of S.A., each £10,000. W. Duncan Baxter, Stuttaford & Co. (for 5 Entrance Scholps.), Wm. Cuthbert & Co., and Colonial Orphan Chamber, each £5000. For Memorial Scholps.: R. Solomon, £2000; Cuthbert, £3000; Fletcher, Rosa Harris, and Lewis, each £1000; Lodge de Goede Hoep., I. J. Honikman, Steytler, and McCullough, each £500. Eldridge Boarding Scholps., £2000. Contributions to Fund for Jameson Univ. Hall, £50,000, including De Beers Consol. Mines, Rhodes Trust, and Sir Abe Bailey, each £10,000.

NEW DEPARTMENTS AND POSTS. 2 Chairs in place of 1 for English, and for Nederlands en Afrikaans, and Chairs of Ethics and Politics, and of Law; in Dept. of African Life and Lang.—Chairs of Bantu Philology and Social Anthrop., and Lectureship in Phonetics; Librarian.

NEW REGULATIONS. For M.B., Ch.B., and D.P.H. (now approved by Colonial Med. Council as registrable qualifications); for Teachers' Certificates; for B.Sc. in Chem. Engin.

CONFERENCE agreed to with Univ. of S. Africa *re* degrees in Law.

OTHER IMPORTANT OCCURRENCES. Principal and V.C. knighted; turning of first sod of ground for new buildings at Groote Schuur by Sir O. Beit, July 2, 1920; scheme adopted to build new hospl. in Cape Town, to be available for training med. students of the Univ.

HONORARY DEGREES. LL.D.—Viscount Buxton, Governor-Genl., and Sir O. Beit.

OTHER DEGREES. B.A., 51; B.Sc. in Engin., 24; LL.B., 1; M.A., 17.

NUMBER OF STUDENTS (1917–18 to 1919–20). Undergraduates preparing for B.A.—228, 268, 295; B.Sc. (or Diploma) in Engin.—69, 77, 101; LL.B. or Law Certif.—23, 33, 52; M.B., Ch.B.—200, 286, 256; Dental—24, 19, 27; Land Survey—5, 2, 3; Teaching—40, 46, 54; Assaying—5, 2, 1. Graduates preparing for M.A.—24, 31, 25; other Higher degrees—2, 9, 7; Sec. Teachers' Higher Certif.—11, 21, 27; D.P.H.—0, 0, 3. Occasional, 23, 20, 26. Total—652, 695, 877, including women—120, 164, 173. Students who left to continue studies in U.K., America, or Holland in 1919–20: med. or dental, 30 (in 1918–19, 180); Arts studies, 4.

SPECIAL COURSES OF LECTURES for Actuaries, for School Teachers, and others were given by Univ. lecturers.

RETIREMENTS. M. Goldberg and H. C. Brayshaw, Lectrs. in Anat., to continue study and research; A. E. Eastman, Lectr. Electro-Technics, on accepting post in engin. works; A. S. Strachan, Lectr. Path., to take post in Glasgow Univ.

UNIVERSITY OF SOUTH AFRICA

(By Act 12 of 1916 of the Legislature of the Union of South Africa the UNIVERSITY OF THE CAPE OF GOOD HOPE, incorporated by Act of the Cape Legislature in 1873, became and was incorporated in the University of South Africa with administrative seat at Pretoria, v. p. 390.)

CHANCELLOR—Field-Marshal H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.T., K.P.

VICE-CHANCELLOR—W. J. VILJOEN, M.A , L.N.C , Phil.D.

CHAIRMAN OF SENATE—Professor A. C. PATERSON, M.A.

REGISTRAR—W. THOMSON, M.A., B.Sc., LL.D.

ASST. REGISTRAR—C. C. GRANT, M.B.E , M A.

PRESIDENT OF CONVOCATION—H. J. HOFMEYR, B.A

CONSTITUENT COLLEGES

GREY UNIVERSITY COLLEGE, Bloemfontein (1855).

HUGUENOT UNIVERSITY COLLEGE, Wellington (1874).

NATAL UNIVERSITY COLLEGE, Pietermaritzburg (1909).

RHODES UNIVERSITY COLLEGE, Grahamstown (1855).

SOUTH AFRICAN SCHOOL OF MINES AND TECHNOLOGY, Johannesburg (1903).

TRANSVAAL UNIVERSITY COLLEGE, Pretoria (1903).

FACULTIES: Arts (including Divinity and Music), Science, Engineering, Agriculture, Law, Commerce, Medicine, Veterinary Science.

DEGREES. B.A., M.A., D.Litt., D.Phil.; B.D., D.D.; B.Mus., M.Mus., D.Mus.; B.Com.; B.Econ.; B Sc., M.Sc., D.Sc.; M.B., Ch.B., Ch.M., M.D.; B., M., and D.Sc. in Engin.; B., M., and D.Sc. in Agric.; LL.B., LL.M., LL.D.; B.V.Sc., D.V.Sc.

Courses for B.A., B.Com., B.Econ , B.Sc.—3 yrs.; for B.Sc. Engin., B.Sc. Agric.—4 yrs.; B.V.Sc.—5 yrs.; M.B., Ch.B.—6 yrs. Internal candidates for these degrees must have attended as registered matriculated students at a constituent Coll. for the prescribed periods, provided that the Senate will accept as qualifying attendance on recognized courses at the Univ. of Cape Town or Stellenbosch and may accept attendance and examns. at other recognized Univs. But the minimum attendance on approved courses at the Univ. of S.A. for the Bachelor's degree in Applied Science is the final 2 yrs., in Med. and Surg. the final 3 yrs., and for other Bachelor's degrees one-half of the courses prescribed. *External* students must have their curricula approved by the Senate and must pass the examns. prescribed for them from year to year by the Senate in order to qualify for degrees.

Higher Degrees. The M.A., M.Sc., and M.Sc. (Agric.) courses each cover 1 yr. (after graduating as bachelor). The M.Sc. (Engin.) may be conferred on a B.Sc. (Engin.) who has had, since graduating, 2 yrs.' practice of his profession. A thesis is required for the M.Sc. (Agric.) or M.Sc. (Engin.).

THE YEARS 1918 AND 1919. Number of persons who qualified for degrees by examn.—138, 168; admitted to B.Sc. in Engin., as holding Dipl. in Engin. of Cape or S.A. Sch. of Mines and Tech.—102, 6; Honorary degrees—3, 2.

GREY UNIVERSITY COLLEGE, BLOEMFONTEIN, O.F.S.

CHAIRMAN OF COUNCIL—J. S. M. RABIE, B.A.

RECTOR—Rt. Rev. J. D. KESTELL.

REGISTRAR—D. B. BOSMAN, M.A., Litt.D.

PROFESSORS, LECTURERS, ETC.

Afrikaans and German
Malherbe, D. F., B.A., Ph.D. [Prof. Frei.

Botany
Potts, G., B.Sc. Durh., Ph.D. Halle Prof.
Bergstedt, Miss H., B.Sc. Demr.

Chemistry
Rindl, M., D.Ing. Charl. Prof.
Wagener, T., B.A. Demr.

Classics
Ross, J. A., M.A. (Greek) Lectr.
Conlin, W., M.A. Dub. (Latin) Prof.

Dutch and French
Francken, A., B.A. Prof.

English
Johnson, W. S., M.A., R.U.I. Prof.

Geology
Von Bonde, W., M.A. Lectr.

History (S. African)
The Rector Prof.

History and Economics
Barnard, S.P., Docts. Leyd. Lectr.

Law [Lectr.
Streeten, R. C., B A. Ox., LL.B.
Hœxter, O., B A. Lectr.

Mathematics [Prof.
Arndt, W. F. C., B A , Ph D. Gött.
Mudd, N., M.A. Camb. (Applied M.) Lectr.

Pedagogy [Lectr.
Kottich, R. G., B A., Ph.D. Berl.

Philosophy
Forsyth, T. M., M.A., D.Phil. Edin. Prof.

Physics
Logeman, W. H., M.A. Prof.
Landau, L. I., B.A. Demr.

Zoology [Prof.
Dreyer, T. F., B.A., Ph.D. Halle

GENERAL INFORMATION (v. also pp. 388, 397)

Founded in 1855 by Sir George Grey, the College was reorganized in 1904, constituted a Univ. College in 1907, and incorporated by statute in 1910. It is 2 miles from Bloemfontein town. It provides *courses* for degrees in Arts, Science, and Law, and for the Teachers' 1st class Certif. of the Union, and prelim. training for Med., Engin., and Agric.

HOSTELS for men and women within the Coll. grounds. BOARD AND RESIDENCE : £15 per quarter. TUITION FEES : £5 per quarter (Law, £2 : 10s.).

SCHOLARSHIPS, open to residents of O.F.S. for study abroad, 4 or 5 of £150 p.a. for 3 yrs. ; of these 3 are for Agric. study.

THE YEAR 1919–20

NEW POSTS. Rectorship and Chair of S. African Hist.

OTHER NEW DEVELOPMENTS. Govt. grants made for additional men's Hostel, central Dining Hall, and Laboratories.

NUMBER OF STUDENTS (3 yrs., 1917–20). Preparing for Bachelorships—103, 116, 105, including women—29, 29, 24; for Teacher's Certif.—6, 4, 14; Law Certif.—4, 11, 12; M.A. or M.Sc.—3, 5, 4. In 1919–20 one undergrad. went to Dublin for Med. study, 1 to Oxford for Hist. and Educn.; 3 graduates went to Amsterdam to study Commerce, 1 to Amst. to study Med., 1 to U.S.A. for Med., and 2 (Rhodes Scholars) to Ox.

DEGREES OBTAINED (3 yrs., 1917–20). B.A.—22, 17, 18; B.Sc.—0, 5, 3; M.A. or M.Sc.—1, 4, 2.

RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN, C.P.

CHAIRMAN OF COUNCIL—THE BISHOP OF GRAHAMSTOWN.

CHAIRMAN OF SENATE—Professor SMAIL.

REGISTRAR OF COUNCIL AND SECRETARY OF SENATE—Lieut.-Col. H. GREENER, D.S O.

PROFESSORS, LECTURERS, ETC.

Anatomy [Lectr.
Drury, E. G. D., B.S. Lond., D P.H. Durh., M.D. Cape.

Botany
Schönland, S., Ph.D. Kiel, Hon. M.A. Ox. Prof.
Britten, Miss L., B.A. Cape Lectr.

Chemistry and Metallurgy
Cory, G. E., M.A. Camb , Durh. and Cape Prof.
Page, R. A., M.A. Cape Lectr.

Classics
Bowles, C. W., M.A. Camb. and Cape (Greek) Prof.
Smail, W. M., M.A. Ox. and Edin., B.A. Lond. (Latin) Prof.

Drawing and Graphics
Armstrong, F. W., A.R C.A. (Principal, School of Art) Instr.

Dutch
Dingemans, G. F., M.A. Edin. and Cape Prof.

Economics
Hall, R. L., B.A. Ox. and Cape Lectr.

Education [Lectr.
Martinius, Miss M., B.A. Cape
Garthwaite, Miss K. Mistress of Method.

English
Kidd, A. S., M.A. Camb., Manc., and Cape Prof.
McWilliam, Miss J. F. Lectr.

French
Bodmer, H. S. Prof.

Geology
Schwarz, E. H. L , A.R.C S. Lond., F.G.S Prof.

German and Dutch
Weehuizen, P. B., M.O. Hol. Lectr.

History
Rousseau, I. J., B.A. Ox. Prof.

Law
McKerron, G. G , M.A., LL.B. Edin. and Cape Lectr.

Mathematics, Pure
Williams, D., B.Sc. Lond. and Cape Prof.
Martin, J., M.A. Camb. and Cape Lectr.

Mathematics, Appl.
Finlay, W. H. M.A. Dub. Lectr.

Philosophy
Lord, A. R., M.A. Ox. Prof.

Physics
Varder, R. W., M.A. Cape Prof.
Watson, S. W., B.A. Lectr.

Zoology [Prof.
Duerden, J. E., M.Sc. Cape, Ph.D. J. Hopk., A.R.C.S. Lond.

GENERAL INFORMATION (v. also pp. 388, 397)

In 1902 a sum of £50,000 was set apart by the Rhodes Trustees for the further development of what was then known as St. Andrew's College, founded in 1885. Other contributions were made by the public, and in 1904 the College was incorporated under its present name.

LIBRARY, 12,000 vols. LABORATORIES: Bot., Chem., Phys., Zóol.

COURSES. B.A., B.Sc., M.A., M.Sc., LL.B., Law Certif., Surveying, Teachers' 1st and 2nd Class Certifs., 1st yr. Medical, 1st B.Sc. in Agric., 1st Mining, 1st and 2nd B.Com. FEE for full degree course, £21 p.a. Provision for deferred payment in special cases.

HOSTELS for 90 men and 70 women. BOARD AND RESIDENCE, £56 p.a. inclusive.

PUBLICATIONS. *Calendar* (Nov.); *The Rhodian* twice a year.

THE YEAR 1920

BENEFACTIONS. Rhodes Trustees, £50,000 in trust; De Beers, Ltd., £5000; Alfred Beit, £25,000; Town Council, £2000; others, £13,200.

NEW BUILDINGS Men's Dining Hall completed; Arts block (£30,000) begun.

NEW POSTS. History Prof. instead of Lectr.; Educn., Mistress of Method; Lectr. in charge of new Dept. of Economics.

OTHER NEW DEVELOPMENTS. Courses in Commerce.

NUMBER OF STUDENTS (3 yrs., 1918–20). Preparing for B.A. or B.Sc.—111, 118, 138, including women (in 1920, 63); for LL.B. or Law Certif.—5, 6, 11; Medical—16, 9, 9; Teachers' Certif.—9, 7, 20; M.A. or M.Sc.—3, 5, 3; others—10, 16, 17.

DEGREES OBTAINED. B.A. and B.Sc., 21; M.A. and M.Sc., 4.

RESIGNATION. Miss R. S. M. Turnbull, Lectr. in English.

UNIVERSITY COLLEGE, JOHANNESBURG, TRANSVAAL

(FORMERLY SOUTH AFRICAN SCHOOL OF MINES AND TECHNOLOGY)

CHAIRMAN OF COUNCIL—Col. W. DALRYMPLE.

CHAIRMAN OF SENATE AND PRINCIPAL—JAN H. HOFMEYR, M.A. (Cape)

SECRETARY OF COUNCIL—D. P. SUTTIE.

SECRETARY OF SENATE—Prof. YOUNG.

PROFESSORS, LECTURERS, ETC.

Accounting
Findlay, J., C.A. Edin , F.S.A.A. Eng., R.P.A. Trans. Prof.
Dix, F., B.Com. Asst.

Anatomy
Stibbe, E. P., M.R.C.S., L.R.C.P. [Prof.

Botany
Moss, C. E., M.A. Camb., D.Sc. Manc., B.Sc. Leeds Prof.
Heatley, Miss M., M.A. Well. Asst.
Young, Miss E., B.Sc. Demr.

Chemistry
Wilkinson, J. A., M A. Camb., F.C.S. Lond. Prof.
Robertson, J. B., M.A., B.Sc. Edin. Senr. Lectr.
George, E., B.A. Asst.
Backeberg, O. G., B.Sc. Asst.

Classics
The Principal Prof.
Tillyard, H. J. W., M.A. Camb., D.Litt. Edin. Prof.
Wagner, A. I., B.A. Ox. and Cape Asst.

Dutch
Krige, J. D. A., Ph.D. Ghent, M.A. (also Lectr. in German) Prof.

Economics, Ec. Hist , and Statistics
Lehfeldt, R. A , B.A. Camb., D.Sc Lond. Prof

Education
Macgregor, W. R., M.A. Aberd (also Prof. of Psych) Prof

Electro-Technics.
Heather, H. J. S., B.A. Ox. M.I E.E , F.Am.I.E.E. Prof
Damant, E. L., B.Sc. Lond. and S. Afr. Asst

Engineering, Mechanical
Orr, John, B.Sc. Glas., M.I.C.E. M.I.M.E., M.Am.S.C.E. M.Am S.M.E. Prof
Jensen, A. E., B.Sc. Lond. and S Afr. Asst
Gimkewitz, F., B.Sc. Asst

Engineering, Civil
Charters, R. H., M.I.C.E. Prof

English
Drennan, C. M., M.A. Camb. and Lond. (also Prof. of Logic and Ethics) Prof
Lawrie, J. G., B.A. Asst

French
Maingard, L. F., M.A., D.Lit. Lond., L.e.D. Paris. Prof.

Geography
Hutcheon, J., M.A. Aberd. Lectr.

Geology
Young, R. B., M.A. Glas., D.Sc. Edin. Prof.
Küpferburger, W., M.Sc. Stell. Asst.

Hebrew [Prof.
Landau, J. L., Ph.D. Vien., M.A.

History
Macmillan, W. M., B.A. Ox. Prof.

Law
Murray, J. C. Lectr.
Schreiner, O. D., B.A. Cape and Camb., LL.B. Camb.

Mathematics [Prof.
Dalton, J. P., M.A., D.Sc. St. And.
Constançon, C., Dip. Ing. Zür. Asst.
Pagan, Miss G. M., M.A. Asst.

Maths., Applied [Lectr.
Le May, H., M.A., B Sc. Glas.

Metallurgy and Assaying
Stanley, G. H., A.R.S.M., F I.C., M.I.M.E., M.I.M.M. Prof.
Adam, H. R., B.Sc. Aberd., F.I.C. Analyst and Research Chemist with status of Sr. Lectr.

Mining and Surveying
Cellier, J. S. Prof.
..... Asst.

Music
Wendt, T., A.R.A.M. Prof.

Philosophy, v. also Eng. [Prof.
MacMurray, J., M.A. Ox. & Glas.

Physics
Paine, H. H., M.A. Camb., B.Sc. Lond. & Wales Prof.
Evans, G. T., B.Sc. Wales Asst.
Kops, C. W., B.A. Cape Asst.

Physiology [Prof.
Cluver, E. H., B.A., B.M. Ox.
Tyler, A. V. Demr.

Veterinary Anatomy
..... Prof.

Zoology
Fantham, H. B., M.A. Camb., D.Sc. Lond. Prof.
Sandground, J., B.Sc. Asst.

Medicine

Gynaecology [Prof.
Grant, W. Gordon, M.D. Aberd.

Medicine
Williamson, O. K., M.A , M.D. Camb., F.R.C.P Lond. Prof.

Obstetrics
McGibbon, J., M.B., F.R C.P. Edin. Prof.

Pathology and Bacteriology
Watkins-Pitchford, W., M.D. Lond., D.P.H. Ox., F.R.C.S. Hon. Prof.
Becker, J. G., M.B. Glas., D P.H., D.T.M. Liv. Sr. Lectr.
Pirie, J. H. H., B.Sc., M.D., F.R.C.P. Edin. Sr. Lectr.

Pharmacology
Watt, J. M., M.B. Edin. Prof.

Surgery
Thomson, G. Ritchie, M.B., Ch.M. Edin. Prof.

GENERAL INFORMATION (v. also pp. 388, 397)

Telegraphic address—University, Johannesburg.

The TRANSVAAL TECHNICAL INSTITUTE, constituted in 1903, was opened in 1904 and took over at Johannesburg the work of the S. AFRICAN SCHOOL OF MINES, KIMBERLEY, which had been founded in 1896. In 1906 its name was changed to "TRANSVAAL UNIVERSITY COLLEGE," and in 1908 Arts and Science classes at Pretoria were placed under its control. This arrangement

was terminated in 1910, when the Johannesburg part of the institution was incorporated under the name of the S. African School of Mines and Technology. Buildings, towards the cost of which the Council of Education, Witwatersrand, contributed £60,000 and Govt. £30,000, were opened in March 1909. In March 1917 classes in Arts, Pure Science, and Medicine were inaugurated. In Sept. 1920 the institution became the "University College, Johannesburg."

LIBRARIES. Seymour Memorial, 11,000 vols., and several departmental. MUSEUM with good Geol. collection. LABORATORIES: Bot., Chem., Electrotech., Engin., Geol., Phys., Zool.

In addition to the Degree COURSES, Evening Classes are provided in technical and other subjects at Johannesburg and other Witwatersrand centres, and in connexion with these College certificates are given. Inclusive FEES from 12 gs. p.a. (B.Com., 2nd yr. and Civil Service Law course) to £32 (B.Sc. Eng.).

SCHOLARSHIP for Graduates in Mining and Metallurgy—£250 for Research.

RESIDENCE. Hostels for men and women. Fees, £56 p.a. Cost of living from about £120 p.a.

PUBLICATIONS. *Calendar; Evening Class Prospectus; Examn. Papers.*

THE YEAR 1920

BENEFACTIONS. Chamber of Mines, £25,000; Central Mining and Investment Corpn., Ltd., £10,000 for Chem. Lab.; De Beers, Ltd., £10,000 for Engin. and Mining; Sir O. Beit, £8000; H. Ainsworth, £6000 for History; Joh. Consolidated Investment Co., Ltd., £5000; Sir O. Philipps, £5000 for Vet. Sc.; Sir Abe Bailey, £5000; G. F. Jooste, £5000.

NEW BUILDINGS. Medical School and Hostels for men and women nearly completed; buildings at Milner Park begun for Arts and Pure Science Depts, the main buildings of the Coll. having been disposed of to S. Afr. Govt.

NEW DEPARTMENTS AND POSTS. Music, Philos., Vet. Anat., Gynæcology, Medicine, Obstetrics, Pharmacology, Surgery.

OTHER NEW DEVELOPMENTS. As from Sept. 20, 1920, the Coll. has by Act of Parlt. become the "University College, Johannesburg." Steps have been initiated to obtain incorporation as a Univ.

EXTENSION WORK. Evening class enrolment about 1400; Extension Lectures, about 10.

NUMBER OF STUDENTS. Full-time, 365, including 62 women. Part-time, preparing for Bachelorship, 117 (21 women); for Diplomas, 136 (43 women); Research, 8 (4 women). Occasional, 10 (5 women). About 15 students went to British or American Univs. to complete studies in Medicine or Dentistry; one graduate to Oxford as Rhodes Scholar.

NUMBER OF DEGREES OBTAINED. B.A. or B.Sc., 8; B.Sc.Engin., 11; B.Com., 3; M.A. or M.Sc., 5.

RESIGNATIONS. Mrs. Macgregor, Asst. in Chem.; J. Higham, Lectr. in Electrotechnics, appointed Asst. in Manc.; Miss Tann, Asst. in Engl.; J. V. Brink, Asst. in Law; A. Ogg, Prof. of Physics, apptd. Prof. at Cape Town; M. Salomon and B. Ettlinger, Assts. in Physics; R. Ortlepp, Asst. in Zool.

NATAL UNIVERSITY COLLEGE, PIETERMARITZBURG, NATAL

CHAIRMAN OF COUNCIL—The Hon. Sir JOHN C. DOVE-WILSON.
CHAIRMAN OF SENATE—Prof. DENISON.
REGISTRAR—D. ROBB.

PROFESSORS AND LECTURERS

Botany and Geology [Prof.
Bews, J. W., M.A., D.Sc. Edin.
Aitken, R. D., B.A. Cape Lectr.

Chemistry
Denison, R. B., D.Sc. Leeds, M.A., Ph.D. Bres. Prof.
Mudie, A. D., M.A., B.Sc. St. And. Lectr.

Classics
Petrie, A., M.A. Aberd., B A. Camb. Prof.

Dutch and German [Prof.
Besselaar, G., M.A., D.Litt. Ghent

English and Philosophy
Waterhouse, O , M.A. Manc. Prof.
Sweaney, G. W., B A , LL.B. Cape Lectr.

French
Mitchell, E. C., B A. Cape Lectr.

History [Lectr.
Hattersley, F. A., M.A. Camb.

Law
Selke, E. A., M.A. Ox. Lectr.
Burchell, F B., B.A., LL.B. Cape Lectr.

Mathematics [Prof.
Roseveare, W. N., M A. Camb.

Physics
Mesham, P., M.Sc. Liv. Prof.

Zoology
Warren, E., D.Sc. Lond. Prof.

GENERAL INFORMATION (v. also pp. 388, 397)

Established by an Act of 1909, the College was opened in 1910 in the Town Hall and moved in 1912 to its own buildings (which, with equipment, cost £60,000) in the suburb of Scottsville. Students have access to Maritzburg *Botanical Gardens* and Govt. *Museum.*

COURSES are provided leading to the B.A., B Sc., M.A., M.Sc., etc., 1st examn. for B.Sc. in Agric. (including 1st yr.'s course for Med. students), LL.B., Natal Law Certif. and Natal Advocates' Law examn., Survey examn. (theory only), Mining Dipl. of S.A. Sch. of Mines and Tech. (1st and 2nd examns.). FEES: Tuition per half-yearly term—ordinary, 10 gs.; Law or single subject, £5.

HOSTEL in grounds for women students.

THE YEAR 1920. *New Buildings.* Women Students' Hostel (£14,000) and Science Block (£13,000) begun. *New Posts.* Lect'ships in Engl., Chem., Bot., Law. *Number of Students.* Preparing for degrees or Law or Teachers' Diplomas—150, including 50 women (in 1918 and 1919—87, 122). 5 students proceeded to Edinburgh for further study, and 1 each to Oxford, Camb., Lond., Mass. Inst. Tech. *Degrees obtained* (1919): B.A., 8; B.Sc., 6; M.A., 1; M.Sc., 2.

TRANSVAAL UNIVERSITY COLLEGE, PRETORIA, TRANSVAAL

CHAIRMAN OF COUNCIL—H. L. MALHERBE.

RECTOR—Prof. A C. PATERSON, M.A.

REGISTRAR—Advocate A. A. ROBERTS, B A , LL.B.

PROFESSORS AND LECTURERS

Accountancy
Barnes, S. R , A.S A A Lectr

Agricultural Botany
Hector, J. M., B Sc. Aberd. Prof

Agricultural Chemistry
Anderson, E., Ph.D. Chic. Prof.

Agricultural Engineering
van Tonder, A. J., M.Sc. Calif., A.C.G.I Lectr

Agronomy
Leppan, H. D., B.Sc. Tor. Lectr.

Animal Husbandry
Bosman, A. M., B.Sc. Tor Prof

Bio-Chemistry
Green, H. H., D.Sc. Glas. Prof.

Botany
Wager, H. A , A R.C.S. Prof.

Chemistry, v. also Phys. [Prof.
Malherbe, D F. du T., Ph.D. Halle

Dairying
Davel, H. B., B.Sc. Iowa Prof.

Dutch
Le Roux, T. H , Litt.D. Leid. Prof.
Kritzinger, M. S. B., B.A. Cape Lectr.

Economics [Lectr.
Holloway, J. E., D.Sc. Lond.

Education
Garnett, E., B.A. Lond. Prof.
Bosman, J. C., M.A. Harv. Assoc. Prof.

English
Wallis, J. P. R., M.A. Liv. Prof.
Zorn, P. W., B.A. Cape and Ox. Lectr.

Entomology [Lectr.
Faure, J. C., M.A., B.Sc. Corn.

French and German
de Villiers, W. P., Ph. & Litt.D. Ghent Lectr.

Geography
Vaughan, A. W. Lectr.

Geology [Prof.
De Villiers, L. C., Ph.D. Freiburg

Greek
Reinink, H., Litt.D. Amst. Prof.

Hebrew v Latin

History [Prof.
Fouché, L., Ph. et Litt D. Ghent

Latin and Hebrew
Paterson, A. C., M.A. Edin. and Ox. Prof.
Boxwell, J., B.A. Cape (Latin) Lectr.

Law [Prof.
Pittman, W., B.A. Cape and Ox.
Barry, C , B.A. Ox. Lectr.

Mathematics
du Toit, A. E., M.A. Cape Prof.
Kops, C. W., B.A. Cape Lectr.

Mathematics, Applied
Sherwood, E. T. G., M.A. Camb. Lectr.

Philosophy
Mactadyen, W. A., M.A. Ox., LL.D. Cape Prof.

Physical Chemistry
Tromp, F. J., B.A. Camb., D.Sc. Lectr.

Physics and Applied Maths.
Gundry, P. G., Ph.D. Gött., A.R.C.S. Prof.
Voss, V., Ph.D. Johns H. Lectr.

Physiology
Andrews, W. H., B.Sc. Lond., M.R.C.V.S. Prof.

Political Science
Brookes, E., M.A. Lectr.

Theology
Greyvenstein, J H. J. A., Th.D. Utr. Prof.
Macmillan, E., M.A., B.D. Glas. Lectr.

Veterinary Anatomy [Prof.
De Kock, G. v. d. W., M.R.C.V.S.,

Vet. Hygiene
Du Toit, P. J., Ph.D. Zür., D.M.V. Berl. Prof.
Robinson, E. M., M.R.C.V.S. Lectr.

Vet. Medicine
Viljoen, P. R., M.R.C.V.S. Prof.
Neser, C. P., B.A. Cape, M.R.C.V.S. Lectr.

Vet. Pathology
Theiler, Sir A., K C.M.G., D.Sc. Cape, D.M.V. Berne Prof.

Zoology
Malan, D. E., Ph.D. Zür. Prof.

GENERAL INFORMATION (v. also pp. 388, 397)

Arts and Science Classes were instituted by the Govt. at Pretoria in 1908 and were placed under the control of the Transvaal Univ. College, formerly the Johannesburg Technical Institute. A separation took place in 1910 when the Johannesburg part of the institution was reincorporated as the S. African School of Mines and Technology.

In 1917 was initiated a Faculty of Agriculture, financial provision for which (namely, an endowment of £100,000) had already been made by Parliament.

In 1918 a Faculty of Theology was established, in 1919 one of Commerce and Public Administration, and in 1920 one of Vet. Sc. The College buildings (excluding hostels) cost £50,000.

COURSES are provided for all Degrees and Diplomas of the Univ. in Arts, Science, Agric., Vet. Sc., Law, Div., and Commerce and Public Administration. FEE for full degree course, £17 : 10s. p.a.

HOSTELS. 3 for men, including the Dutch and English Church Hostels, and 1 for women. Board and Residence, £50 p.a.

THE YEARS 1917–19 (Return for 1919-20 not received)

BENEFACTIONS. B. Kitzinger, £250 p.a. for 20 yrs. for bursaries in Agric.; Mrs. A. C. Paterson, site for English Church Hostel; Nat. Bank of S. Africa, £10,000; Union Castle Steamship Co., £1500 p.a. for several yrs. for extra staff and £500 for equipment in Agric.; L. Reyersbach, £5000 for bursaries (shared with Univ. Coll., Johannesburg); Lady Steel, £1000 for bursaries for women in Agric.

LEGISLATION. Act 20 of 1917 of the Union provided for endowment £100,000 of Faculty of Agric.

NEW DEPARTMENTS. Agric. Faculty initiated in 1917. Theol. Faculty formally constituted (courses had been in progress since 1916) in 1918. A Faculty of Com. and Public Admn. established in 1919. In 1920 Govt. sanctioned the organization of a Vet. Sc. Faculty with 7 Profs. and 10 Lectrs. in connexion with the Vet. Research Inst., Onderstepoort.

HOSTELS for men established by Dutch Ref. Church in 1917 and English Church in 1918.

NUMBER OF STUDENTS preparing for degrees in Arts, Science, Agric., Theol., 149, 213, 179 (including 31, 31, 33 women); Post-grad. Diploma in Educ., 18, 16, 21 (including 8, 5, 8 women); Diploma or Bachelor's Degree in Law or Com., 38, 63, 71; Occasional, 9, 33, 23.

DEGREES obtained, 1916–18: B.A., 16, 15, 12 (including 6, 6, 7 women); in 1917, LL.B., 3; in 1918, M.A., 9 (3 women); B.Sc., 4; M.Sc., 3; B.Sc. Agric., 1.

HUGUENOT UNIVERSITY COLLEGE, WELLINGTON, C.P.

PRESIDENT—Miss A. E. BLISS, Litt.D.

PROFESSORS AND LECTURERS

Botany and Philosophy [Prof.
Stoneman, Bertha, D.Sc. Corn.
Robson, Miss G , B.A. Lectr. in Bot

Chemistry [Prof.
Kilroe, Miss F. C., B.Sc. Lond.

Classics [Prof
Sargent, Helen A., M A Oberl.
Williams, Marie V., B.A. Prof.

Dutch
van de Koppel, L. H., M.A. Lectr.

Education [Lectr.
de Wet, Miss F. C., M.A Col., B.A.

English
Snell, Florence M., M.A. Oberl., Ph.D Yale Prof.

History and French [Prof.
Stafford, Susan B., M.A N.U.I.

Horticulture
Hebditch, Miss G. L. Lectr.

Mathematics [Prof.
Johnson, Alta M., Ph.B. Neb.

Philosophy v. Botany

Physics
Erasmus, H. W. B., M.Sc. Lectr.

Zoology
Kilroe, Miss F C., B.Sc. Lectr.

GENERAL INFORMATION (v. also pp. 388, 397)

Originally a department of the Huguenot Seminary founded by Dr. Andrew Murray in 1874, the College was incorporated by Act of the Cape Legislature in 1907 as a College for Women and became a constituent College of the Univ. in 1918.

LIBRARY, over 7000 vols. HERBARIUM, over 2000 specimens. LABORATORIES, Bot., Chem., Physics, Zool.

COURSES for B.A., B.Sc., M.A., M.Sc., and First Class Teachers' certif. Special courses in Horticulture.

EXPENSES. Class Fees, £16 per annum. Board at the College House, £44 p.a.

THE YEAR 1920

BENEFACTIONS. De Beers, Ltd., £500; others, £330.

NEW POSTS. Lectr. in Botany.

OTHER DEVELOPMENTS. Charter amended to enable men to join classes.

NUMBER OF STUDENTS. Full-time, preparing for Bachelorship, 44, including 2 men. Graduates taking course in Educn., 12; others, 28, including 7 men. One graduate went to London for Med. study.

DEGREES OBTAINED. B.A. or B.Sc., 11; Certif. Tr., 4.

UNIVERSITY OF STELLENBOSCH

CHANCELLOR—Prof. P. J. G. DE VOS, Litt.D.
VICE-CHANCELLOR—Prof. A. MOORREES, Litt.D.
PRINCIPAL—Prof. G. G. CILLIE, Ph.D.
REGISTRAR—D. J. ACKERMANN, B.A.

PROFESSORS, LECTURERS, ETC.

Agriculture, v. also Vet. [Prof.
Perold, A I., Ph.D. Halle, B.A. (Œnology and Viticulture)
Neethling, J. H., M.Sc. Corn. (A. Botany) Prof
Reinecke, O. S. H., B.S.A. Guelph (Fruit-culture) Prof.
Brain, C. K., M.A. Chic., D.Sc. Birm. (Pathology) Prof.
Malherbe, I. de V., Ph.D. Mun., B.A. (A. Chem.) Prof.
Reimers, J. H. W. (Animal Husbandry) Lectr.

Botany [Prof.
Nel, G. C., B.A., Ph.D. Berl.
Duthie, Miss A. V , M A. Lectr.
Garside, S., M.Sc. Manc. Lectr.

Chemistry
van der Merwe, C. D., Ph.D. Halle, B.A. Prof.
van der Riet, B. de St. J , Ph D. Halle, M.A. Prof.
du Toit, D. F., D.Chem. Leyd., M.A. Prof.
Krige, G. J. R., M.Sc. Lectr.
van Rhijn, A. J. R., B.A. Lectr.

Classics
van Braam, P., Litt.D. Utr., M.A. (Latin) Prof.
Edgar, C. S., B.A. Ox., M.A. Edin. (Greek) Prof.
Basson, J., Ph.D. Berl., M.A. (C. and Classical Philol.) Prof.
McCulla, J., M.A. R.U.I. Lectr.

Commerce (Staff to be apptd.)

Dutch and Afrikaans
Joubert, W A., Th.D. Amst., B.A (Dutch) Prof.
Pienaar, E. C., Litt.D., Amst. B.A. (Dutch) Prof.
van Niekerk, Lydia, Litt.D. Amst., B.A. (Dutch) Prof.
Smith, J. J., B.A , Barr.-at-Law (Afrikaans) Prof.
Celliers, J. F. E (Literature) Prof.
de Wet, B.A., M.A. Lectr.

Economics
Grosskopf, J. F. W., Dr. Jur. Prof.

Education [Prof.
Cillie, G. G., Ph.D. Stras., B.A.
Pauw, D. A. A., B.A. (Method) Prof.
Donald, M., M.A. Lectr.
Schroder, Miss A. E. Lectr
Eybers, E., M.A., Ph.D. N.Y. Lectr.
Stockenström, E. C., B.A. Lectr.

English
Notcutt, H. C., B.A. Lond. Prof.
Jackson, M. H., B.A. Lond. Lectr.
..... Lectr.

French
Franken, J. L. M., Litt.D. Ghent, M.A. Lectr.

Geography
Serton, P., Litt.D. Utr. Prof.

Geology
Shand, S. J., Ph.D. Münst., D.Sc. St. And. Prof.

German
Langenhorst, E. H. Lectr.

Germanic Philology [Prof.
Bouman, A. C., Litt.D. Utr.

Hebrew
Stolk, M. F., Ph.D. Leip. Lectr.

History [Prof.
Blommaert, W., Litt.D. Ghent.

le Roux, Miss M., B.A. Lectr.
Gie, S. F. N., Ph.D. Berl., B.A (H. of S. Africa) Prof.
Law [Prof
Bodenstein, H. D. J., Barr.-at-Law, LL.D. Leid. (Roman-Dutch L.)
Others to be appointed.
Logic and Metaphysics [Prof.
Wilcocks, R. W., Ph D. Berl., B.A.
Mathematics
Mackenzie, A. H., M.A. Aberd. and Camb. Prof.
Stegmann, E. T., B.A., D.Sc. Ag. Prof.
Mathematics, Applied [Prof.
Morrison, J. T., M.A., B.Sc. Edin.
Cilliers, A. C., M.Sc. Lectr.
Philosophy, Moral and Polit.
Brümmer, N. J., B.D. St. And., M.A. Prof.
Physics [Prof.
Malherbe, W. E., B.Sc. Edin., B.A.
Harvey, S. C., B.A. Lectr.
Schumann, T. E. W., M.Sc. Lectr.
Physiology
..... Prof.
Veterinary Science [Prof.
De Kock, G. v. d. W., M.R.C.V.S.
Zoology [Prof.
Goddard, E. J., B.A., D.Sc. Syd.
Grobbelaar, C. S , M.A. Lectr.

GENERAL INFORMATION (v. also p. 388)

The Univ. was formally opened on Feb. 28, 1920.

FACULTIES. Literature and Philosophy (including also Languages, History, Economics, Roman Dutch Law), Maths. and Nat. Sc., Educ., Agric., Theol.

DEGREES, ETC. B.A., B.Sc., B.Sc. (Agric.) [4 yrs. course], B.Educ. (6 months after passing T1), LL.B. (4 yrs. combined with B.A.); obtainable by 1 yr. post-graduate course—M.A., M.Sc., M.Sc. (Agric.). After 2 yrs. [for D.Sc. (Agric.) 1 yr.] of further study and research at the Univ. or other approved place a M.A., M.Sc., or M.Sc. (Agric.) respectively may present a thesis for the Litt.D., or Ph.D., D.Sc., or D.Sc. (Agric.). Similarly a LL.B. may [2 yrs.] present a thesis for the LL.D.

Courses are also provided for the T1 and T2 Teachers' certifs. and for the Univ.'s diploma (2 yrs. course) in Agric.

FEES for tuition per semester, £10 (Teaching, £5 to £7 : 10s.). Examns., £5 to £20. Hostel fees, £44 and £48 p.a.

PUBLICATION. *Calendar* (Dec.).

THE YEAR 1920

NEW BUILDINGS. For Chemistry Dept., to be completed in 1921 at cost of £50,000; Hostel for 100 men, to cost £40,000.

NEW POSTS. Profs. of Agric., Chem., and Path., instead of Lectrs. New Chairs of Econs., Geog., Vet. Sc. Lect'ships in Dutch, Engl., Chem., Educn., Animal Husbandry.

EXTENSION WORK. Evening lectures by members of staff once a week.

NUMBER OF STUDENTS. Preparing for B.A. or B.Sc. (Pure Sc.), 393, including 57 women; for LL.B., 2; for B.Sc. (Agric.), 29; for M.A. or M.Sc., 26; for Teachers' Certif., 135 (92 women); others, 50. 3 graduates went to Oxford for further study and 1 to Amsterdam. 40 other students went abroad for further study.

DEGREES CONFERRED (1919). B.A. and B.Sc., 81; M.A. and M.Sc., 11.

DEATHS. Prof. J. I. Marais, Chancellor, Aug. 1919; Dr. G. D. Rees.

RETIREMENT. A. B. Bartmann, Prof. of Maths., July 1920.

THE UNIVERSITIES OF INDIA.

UNIVERSITIES were first established in British India as a result of the great parliamentary inquiry into the condition of India which preceded the confirmation of the Company's Charter in 1853. It was resolved to create a properly articulated system of education from the Primary School to the Univ. The London Univ., at that time a purely examining body, which admitted to its tests only the students trained in affiliated institutions—the latest device of educational statesmanship—was taken as a model. "It had been suggested, in London, by conditions which resembled those of Bengal. . . . Its defects were not yet apparent, though it was to be profoundly modified by London itself four years later. It had the advantage of costing very little. It enabled all the existing collegiate institutions, whether Government or missionary, to be worked into the same scheme, and promised to provide a quite impartial mode of testing the qualifications of students for Government service. Above all, it gave freedom to the non-Government Colleges—all, at that date, mission colleges—to carry on their work in their own way, and offered them help from public funds for the secular side of their work" (*Report of the Calcutta Univ. Commission*, 1917–19). In pursuance of this policy, Univs. were founded in 1857 at Calcutta, Bombay, and Madras. The framers of the policy, while contemplating that the ordinary subjects of study should be dealt with by the Colleges, did not intend that the Univs. should have no teaching functions, but in point of fact they have until recently concerned themselves solely with examinations. In 1882 and 1887 the Univs. of the Panjab and Allahabad were established on similar lines. A Commission was appointed in 1902 to examine the working of the system, and the Univs. Act of 1904 was designed to give effect to its recommendations as to reorganization of the government of the Univs., their assumption of teaching functions, and more effective supervision by them of the Colleges as well as more exacting conditions of affiliation. Univ. Professorships, Readerships, and Lectureships have accordingly been constituted in the above-named Univs, but mainly for advanced (post-graduate) courses and, except in Calcutta, only on a very small scale. Benares (Hindu), Mysore, and Patna Univs. were established in 1916 and 1917. The foundation, structure, and working of institutions for higher education in India have been subjected to exhaustive re-examination by the Calcutta Univ. Commission, 1917–19. Preparations are in progress (1920) for giving effect to many of the far-reaching and fundamental changes recommended by this body. The Bill for establishing "a unitary, teaching, and residential" Univ. at Dacca was passed by the Imperial Legislative Council in March 1920, and in the following autumn Bills for Univs. at *Aligarh*, *Lucknow*, and *Rangoon* were passed. The following summary relates to the five older Univs.

CONSTITUTION. Under the Act of 1904 the SENATE, comprising the

(official) Chancellor, the Vice-Chancellor, and Fellows (and, in Calcutta, the Rector) constitute the Body Corporate of the Univ., the executive government being vested in a SYNDICATE of from 9 to 17 members including the Vice-Chancellor and Director(s) of Public Instruction and members (largely College teachers) elected by the Senate or the Faculties. The constitution and abolition of FACULTIES rests with the Senate.

ADMISSION TO EXAMINATIONS. Save on the recommendation of the Syndicate, by special order of the Senate, and subject to any regulations made in this behalf, no person may be admitted to any except the Matriculation examn. unless he produces a certificate from a College *affiliated* to the Univ. to the effect that he has completed the prescribed course.

Applications for AFFILIATION are submitted by the Syndicate if satisfied as to the managing agency, teaching staff, provision for residence of students, equipment, financial resources, suitability of fees, etc., to Government. If granted the courses in respect of which the College is affiliated are specified. Affiliated Colleges must comply with requisitions by the Syndicate for information, submit themselves to inspection under the Syndicate's orders, and take such action as may be ordered consequent upon such inspections.

TERMS. Bombay divides the academic year into two terms, June-Oct., Nov.-March; elsewhere Colleges make such arrangements as they find convenient. Univ. examns. are for the most part held in the spring.

DEGREE COURSES. In *Arts and Science* a 2 yrs. course leading to an Intermediate examn. is followed by a further 2 yrs. course for the Degree. English is a compulsory subject. Madras gives a B.A. Honours degree requiring an additional year of study.

Law. The LL.B. (or B L) course covers 2 yrs. after graduating in Arts or Science.

Medicine. The M B and B.S course covers 5 yrs, starting from the Intermediate examn. in Arts or Science or (Bom. and Calc) 6 yrs. from Matricn.

Teaching. The B.T. (All. and Mad.—L.T.) courses cover 1 yr. after graduating in Arts or Science. Calc. gives a L.T., obtainable by 2 yrs. of study after passing the Interm. examn. in Arts or Sc.

Engineering. For the B.E. Bombay gives a 3 yrs., Calc. and Mad. a 4 yrs., course.

HIGHER DEGREES. The M.A. or M Sc. can be taken by bachelors of 2 yrs. standing; the D.Litt. of All. and D Phil. of Calc. by M.A. of 3 yrs. standing; the D.Lit. or D.Sc. of Panj by M.A. or M.Sc. after 2 yrs. of further advanced study; the D.Sc. of All. by M.Sc. after 1 yr. of further study; the D.Sc. of Calc. by M.Sc. of 3 yrs. standing.

The LL.M. of All. and Bom., the M.L. of Mad., and the LL.B. (Hons) of Panj. may be taken by LL.B. or B.L. of 2 yrs. standing, the M.L. of Calc. at any time after taking the B.L. The LL.D. (or D.L.) is open to LL.M. (or M.L.) after 5 yrs. (Calc. 1 yr.) of practice.

The M.D. (and in Calc. M.O.) can be taken by medical graduates

after experience (All. and Panj. 4 yrs., Calc. and Mad. 3 yrs., Bom. 5 yrs.) in the practice of their profession or hospital practice (All. and Panj. 2 or 3 yrs., Mad. and Calc. 1 or 2 yrs., Bom. 1 or 2 yrs., in addition to professional practice). The M.S. qualifications are similar, but in Calcutta both hospl. and professional practice are required.

RESIDENCE. One of the recommendations of the Commission of 1902 was that much closer attention should be given to the conditions under which students live and work, and very large sums have since been spent in providing hostels and otherwise improving the conditions of student life.

CONFERENCE. In April 1920 a Committee was formed for drafting an outline of the functions and constitution of an Assocn. of Indian Univs.

INDIAN STUDENTS AT THE HOME UNIVERSITIES. In view of the difficulties which have been experienced by Indian students coming to the United Kingdom an organization has been established by Government for their assistance. This organization, which is under the control of the High Commissioner for India, consists of an Indian Students' Branch at 42 Grosvenor Gardens, S.W.1, in charge of two Joint Secretaries to the High Commissioner for Indian Students' work, a house at 21 Cromwell Road, South Kensington, S.W.7, Local Advisers to Indian Students at Manchester, Edinburgh, and Glasgow, and eleven Advisory Committees in India (Allahabad—Sec., R. K. Sorabji, M.A., Barr.-at-Law; Ajmere—Sec., F. A. Leslie-Jones, M.A., Principal, Mayo College; Bombay—Sec., Prof. F. M. Dastur, M.A., Univ. Buildings; Calcutta—Sec., Prof. J. C. Coyajee, B.A., LL.B., Univ. Inst., 7 College Sq.; Dacca—Sec., Prof. B. N. Das, M.A., B.Sc.; Delhi—Sec., S. K. Rudra, M.A., Principal, St. Stephen's College; Gauhati—Sec., G. Barooah, Barr.-at-Law; Lahore—Sec., K. Dalip Singh, B.A., Barr.-at-Law; Madras—Sec., A. Davies, M.A., Barr.-at-Law, Principal, Law College; Nagpur—Sec., S. R. Pandit, M.A., LL.B., Barr.-at-Law; and Patna—Sec., W. V. Duke, M.A., I.E S., Insp. of Schools, Bankipore).

The Indian Students' Branch at 42 Grosvenor Gardens comprises a bureau for the supply of information on educational matters, and one of the Jt. Secs. acts as Local Adviser to Indian Students in London. A pamphlet, giving a detailed account of the house at 21 Cromwell Road, which serves as a centre and meeting-place for Indian students in London and a temporary residence for new arrivals, can be obtained from the Warden, or from the Advisory Committees in India, and a *Handbook of Information for Indian Students relating to University and Professional Studies, etc., in the United Kingdom* (17th ed., 1920) is published by the Committee of the Indian National Assocn. in conjunction with the Indian Students' Branch, price R. 1 annas 8 (in England, 2s. 6d.).

The posts of Local Adviser to Indian students in Oxford and Cambridge were abolished in 1916, and were replaced by a Secretary to the Delegacy for Oriental Students at Oxford, and a Secretary to the Inter-Collegiate Indian Students Committee at Cambridge. These gentlemen are Univ. officers, and are in no way under the control of the High Commissioner for India.

UNIVERSITY OF ALLAHABAD

PATRON—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE LIEUT.-GOVERNOR OF THE UNITED PROVINCES.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—Hon. Justice T. C. PIGGOTT, B.A., I.C.S.

REGISTRAR—M. G. V. COLE, M.A.

PROFESSORS, READERS, ETC.

Economics

Jevons, H Stanley, M.A., B.Sc., F.S.S. Prof.
Singh, Pritam, M.A. Reader.
Dubey, D. S., M.A. Research Scholar.

Geography

..... Prof.

History

..... Prof.
Tripathi, Ram Prasad, M.A. Reader
Beni Prasad, M.A. Asst. Prof.
Iswari Prasad, M.A. Asst. Prof.
Dhown, D. S, M A. Research Scholar.
Rao, Gurty Venkat Research Scholar.

UNIVERSITY SCHOOL OF LAW. Principal—J. C. Weir, B.A., LL.D. Dub., Bar.-at-Law. Professor—R. K. Sorabji, M.A., Bar.-at-Law. Lecturers—Sarat Chandra Chowdhry, B.A., LL.B.; Mohd. Wallıulla, Bar.-at-Law.

GENERAL INFORMATION (v. also p. 413)

Founded in 1887, the Univ. concerned itself mainly with examinations, having no teaching staff (except that of its School of Law) until 1914. Since then it has established Chairs and Readerships, etc., for research work in Economics and Modern History for graduate students.

LIBRARY, 13,000 vols. MUSEUM in connection with Economics Dept.

FACULTIES. Arts, Science, Law, Medicine, Commerce.

DEGREES, ETC. B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; LL.B., LL.M., LL.D.; M.B., B.S., M.D., Ch.M.; L.T. (Teaching): Commerce Diploma.

RECOGNITION OF OTHER UNIVS. The examns. of Bom., Calc., Mad., Panj., Patna, and Benares, the Ox. and Camb. Senior Local, and Lond. Matricn. examns. are recognized.

SCHOLARSHIPS FOR GRADUATES. Emp. Vict. Research Readership, Rs. 100 p.m. (3 yrs.) for M.Sc.; one of Rs. 100 and 3 of Rs. 50 for Research under Univ. Profs.

RECOGNIZED HOSTELS. 8 at Allahabad and Agra.

PUBLICATIONS. *Calendar*, Rs. 5; *Arts, Sc., and Law Examns. Prospectus*, R. 0.4.6.; *Journal of Economics*, Rs. 12 p.a.; *Univ. Retrospect.*

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

[M.A., etc.=affiliated up to M.A., etc., standard.]

AGRA COLLEGE. M.A.; M.Sc., except in Bot.; B.Sc. in Bot.; I L.B. Principal and Prof. of *Engl. Lit.*—T. Cuthbertson Jones, B.A. Lond. Other Profs.: *Arabic and Pers.*—Syed Mohd. Ibn Ibrahim, M.A. *Biol.*—Karam

Chand Mehta, M.Sc. *Chem.*—H. Krall, B.A., B.Sc. Dub. *Econ.*—Lokendra Nath Ghosh, M.A. *Hist.*—A. Brookes, B.A. Camb. *Law*—Nilmani Dhar, B.A., B.L. *Maths.*—Ekanath Banerji, M.A., B.Sc. *Phys.*—Satish K. Mukerji, M.Sc. *Sansk.*—Krishna Lal Misra, M.A. 21 Lectrs. and Demrs.

AGRA, *St. John's College.* M.A., except in Econ.; M.Sc. in Maths; B.Sc.; and in Commerce. Under the general control of the Church Missionary Soc. Admits non-Christians, but is especially for Christians. Principal, and Prof. of *Engl.*—A. W. Davies, M.A. Ox. Vice-Principal, and Prof. of *Engl.*—R. H. Lloyd, M.A. Ox. Other Profs.: *Commerce*—L. Steele, F.I.A. Lond. *Engl. Lit.*—W. K. Bonnaud. *Maths.*—C. Chaturvedi, M.A., B.Sc. *Philos. and Logic*—T. D. Sully, B.A. Ox. 29 Asst. Profs., etc.

AJMER, *Govt. College.* B.A.; B.Sc. in Maths, Phys., Chem. Principal—E. F. Harris, B.A. 11 Profs., etc.

ALIGARH, *Mohammedan Anglo-Oriental College.* M.A.; D.Sc. in Maths., M.Sc. in Chem. and Phys.; LL.B. The Coll. was instituted for Mohammedans, but admits students of other creeds also. Principal—Zia Uddin Ahmad, C.I.E., M.A. Camb., Ph.D. Gött., D.Sc. Profs: *Arabic*—Vacant. *Chem.*—M. Haidar Khan, B A. Camb., B.Sc. Lond., B Sc. *Econ.*—L. K. Hyder, B A. Camb., Ph.D. Heid. *Eng.*—L. Chase, Ph.D. Col. *Hist.*—A. Fazlur Rahman, B.A. Ox. *Law*—Syed Ali Naqi, B.A. Vakil. *Maths.*—Vacant. *Philos.*—Mian Mohd. Sharif, B A. Camb.; M. Collins, B.A. Lond, Ph.D. Leip. *Phys.*—Wali Mohamad, M.A. Camb., Ph.D. Gött. 28 Asst. Profs., etc.

ALLAHABAD, *Ewing Christian College.* M.A. in Philos. and Econ.; B.Sc. American Presb. Mission. Principal, and Prof. of *Engl.*—C. A. R. Janvier, M A., D.D. Vice-Principal, and Prof. of *Phys.*—P. H. Edwards, M.A., Ph.D. Other Profs.: *Biol.*—W. S. Dudgeon, Ph.D. *Econ.*—C. D. Thompson, Ph.D. *Philos. and Engl.*—N. C. Mukerji, M.A.; J. C. Manry, M.A. Harv. 24 other Profs., etc.

ALLAHABAD, *Kayastha Pathshala.* B.A. in Engl., Maths., Hist., Pers., Sansk. and (provisionally) Econ. Principal—Tara Chand, M.A. 11 other Profs., etc.

ALLAHABAD, *Muir Central College.* M.A.; D.Sc. in Chem., Phys., Maths., and Zool.; B.Sc. in Bot. Maintained by Govt. Principal—W. A. J. Archbold, M.A. Camb. Profs.: *Arabic and Pers.*—Syed Mohd, Ali Nami, Maulvi Alim, etc. *Biol.*—W. N. F. Woodland, D.Sc. Lond.; K. N. Bahl, M.Sc.; D. R. Bhattacharya, M.Sc.; J. H. Mittra, M.A, B.Sc. *Chem.*—N. R. Dhar, D.Sc. Lond.; K. P. Chatterji, M.Sc; S. C Deb, M.A.; A. P. Sarcar, D.Sc. *Engl.*—C. P. W. Lloyd, M.A. Dub.; S. G. Dunn, M.A. Ox.; A. C. Mukerji, M.A.; S. A. Pande, M.A., LL.B.; J. A. Ewing, M.A. Edin.; D. Ojha, M.A.; A. N. Jha, M.A. *Hist.*—Parmanand, M.A. *Maths.*—R. H. Moody, M.A. Camb. and Aberd.; U. C. Ghosh, M.A.; Kumud Behari Mittra, M.A. *Philos.*—E. A. Radford, M.A. Ox. *Phys.*—J. J. Durak, M.A. Camb.; D. N. Pal, M.A.; S. R. Bhargava, M.Sc. *Econ.*—G. D. Karwal, M.A.; A. R. Burnett-Hurst, B.Sc. Lond. *Sansk.*—T. P. Acharya; Sita Ram Sastri. 15 Asst. Profs., etc.

ALLAHABAD, *Government Training College.* L.T. Principal—A. H. Mackenzie, M.A., B.Sc. Aberd. Vice-Principal—J. L. Watson, M.A. Edin. Headmaster of Practising School—R. S. Weir, M.A., B.Sc. Glas. Other Teachers: H. Tinker, B.S. Lond.; J. D. Talibuddin, B.A., L.T.; 4 others.

BAREILLY COLLEGE. B.A. Principal—J. H. Alderson, M.A. Camb. 9 other Teachers.

BENARES, *Queen's College.* M.A. except in Econ.; B.Sc. in Phys., Chem., and Maths. A Govt. Institn. Principal—P. S. Burrell, M.A. Ox. Profs.: *Arabic*—Md. Abdul Jalil. *Engl.*—R. L. Turner, M.A. Camb. *Engl. and Hist.*—H. N. Randle, M.A. Ox. *Maths.*—M. Khurshed Ahmed, M.Sc. *Philos.*—C. M. Mulvany, M.A., B.Lit. Ox. *Sansk.*—Lakshman Sastri. 2 Profs. in Science.

CAWNPORE, *Christ Church College.* M.A. except in Econ. Controlled by the Lucknow Diocesan Board of Missions and a Managing Committee. Principal, and Prof. of *Engl.*—M. S. Douglas, M.A. Camb. Vice-Principal, and Prof. of *Philos.*—E. W. Ormerod, M.A. Ox. 9 other Profs., etc.

CAWNPORE, *Dayanand Anglo-Vedic College.* Provisionally from July 1919, B.A. in Engl., Maths., Hist., Econ., Philos., Sansk., Pers.; Commerce. Principal—Dewan Chand, M.A. 7 other Profs.

GORAKHPUR, *St. Andrew's College.* B.A. in Engl., Hist., Maths., Philos., Pers., and Sansk. Principal—A. C. Pelly, M.A. Camb. 12 Profs., etc.

GWALIOR, *Victoria College.* B.A.; B.Sc. in Maths., Phys., Chem. Entirely supported by the State. Principal—H. F. Manley, B.A. Camb. 14 Profs., etc.

INDORE, *Christian College.* M.A. in Philos. Principal, and Prof. of *Psych. and Ethics*—R. A. King, M.A. Manit. Other Profs.: *Engl. and Econ.*—H. W. Lyons, B.A. Toronto. *Engl.*—A. A. Scott, B.A. Tor. 6 other Profs.

INDORE, *Holkar College.* B.A.; B.Sc. in Maths., Phys., Chem. Maintained by the State. Principal—W. Owston Smith, M.A. Camb. 12 Profs., etc.

JABALPUR, *Robertson College.* B.A.; B.Sc. in Maths., Phys., Chem. Principal—A. C. Sells, M.A. Ox. 18 Profs. and Demrs.

JABALPUR, *Training College.* L.T. A Govt. Institn. Principal—R. McGavin Spence, M.A., Edin. Profs.—Lajja Shanker Jha, B.A.; Satish Chandra Ghoshal, B.A., B.Sc., LL.B.; Gangadhar Govind Kanetkar, M.A. Sheoram Hari Gokhale, M.A.

JAIPUR, *Maharaja's College.* M.A. except in Econ.; B.Sc. in Maths., Phys., Chem. Maintained by the State. Principal (Dir. of Pub. Instrn.)—Makhanlal, M.A. Vice-Principal—D. P. Saksena, M.A. Profs.: *Arabic*—Altaf Husain, Maulvi Alim. *Hist. and Econ.*—Vithal Vaman Tamhankar, B.A. *Maths.*—Manmohan Lal Mathur, B.Sc. *Pers.*—Mohammed Baqa, Munshi Fazil. *Philos.*—Parbati C. Mukerji, M.A. *Sansk.*—Vireshwar Shastri. 7 Asst. Profs., etc.

JODHPUR, *Jaswant College.* B.A. Principal—Pandit Suraj Prakash, M.A. 7 Profs.

LUCKNOW, *Canning College.* M.A. except in Econ.; B.Sc. in Zool., M.Sc. in Maths., Phys., Chem., and Bot. Principal, and Prof. of *Philos.*—M. B. Cameron, M.A., B.Sc. Lond. Other Profs.: *Chem.*—P. S. MacMahon, M.Sc. Manc., B.Sc. Ox. *Engl.*—C. J. Brown, M.A. Ox., Hugh Walker, M.A. Edin. *Engl. and Hist.*—S. B. Smith, M.A. Ox. *Maths.*—J. A. Strang, M.A., B.Sc. Edin. *Pers. and Arabic*—Md. Nurul Aziz, M.A. *Sansk.*—Debendra Nath Chakravarti, M.A. 19 other Profs., etc.

LUCKNOW, *Christian College.* B.A. and B.Sc., and in Commerce. Managed by Board representing Foreign Missions of the M.E. Church, New York. Principal—T. C. Badley, B.A. Ohio. 18 Profs., etc.

LUCKNOW, *Isabella Thoburn College.* For girls. B.A. Under patronage of Women's Foreign Missionary Soc. of the M.E. Church of America. Principal—Miss F. L. Robinson, B.A. Goucher. 12 Profs., etc.

LUCKNOW, *King George's Medical College.* M.B., B.S. Supported by Govt. Principal—J. W. D. McGaw, I.M.S. 17 Profs. and Demrs.

MEERUT, *Meerut College.* B.A.; B.Sc. in Maths., Phys., Chem.; LL.B.; and in Commerce. Principal—W. Jesse, M.A. Camb. Prof. of *Law*—Gurcharan Das, B.A., LL.B. 18 other Profs., etc.

MUSSOORIE, *Woodstock College* (for European and Anglo-Indian Girls). B.A. in Latin, French and Hist. Principal—Miss E. E. Fife, M.A., D.D. Musk., U.S.A. 5 Profs., etc.

NAGPUR, *Hislop College.* M.A. in Engl., Philos., Sansk., Pers., Hist., Maths., and Econ.; B.Sc. (teaching in Vict. Coll.). Principal, and Prof. of *Econ. and Engl.*—J. F. MacFadyen, M.A. Glas. *Engl. and Hist.*—T. W. Gardiner, M.A. Camb.; J. S. Hoyland, M.A. Camb. *Maths.*—G. K. Garde, M.A. *Pers.*—M. M. Kabir, B.A. *Philos.*—J. Brenner, M.A. Aberd. *Sansk.*—S. J. Dehedrai, M.A. 11 other Profs., etc.

NAGPUR, *Morris College.* M.A. in Engl., Philos., Maths., Sansk., Pers., Econ., and Hist.; B.Sc. in Maths., Phys., Chem. (teaching in Vict. Coll.); LL.B. Principal, and Prof. of *Hist.*—F. P. Tostevin, B.A. Ox. Other Profs.: *Econ.*—M. H. Nanawati, M.A., LL.B. *Engl. and Hist.*—F. M. Cheshire, B.A. Camb.; Hirdenarain, M.A.; Nil Rangnatham, B.A. *Law*—G. P. Dick, Bar.-at-Law; P. S. Kotwal, B.A. Ox. *Maths.*—S. P. Banerji, M.A. *Pers.*—M. A. Ghani, M.A. *Philos.*—J. B. Raju, B.Sc. Ox., M.A. *Sansk.*—Ramprata Shastri. 7 other Profs., etc.

NAGPUR, *Victoria College of Science.* D.Sc. in Phys. and Chem. Maintained by Govt. Principal, and Prof. of *Chem.*—R. H. Beckett, B.Sc. Lond. Prof. of *Phys.*—M. Owen, M.Sc. Wales. 4 Assts.

THE YEAR 1919–20

BENEFACTIONS. Govt. grants: Rs. 1,50,000, including Rs. 50,000 for library; N. N. Bose, Rs. 1000 for medal; Col. Kanta Prasad, I.M.S., Rs. 50,000 (promised).

NEW POST. Chair of Geography.

CHANGES IN REGULATIONS. Provision made for co-option of persons in touch with schools for moderating examn. papers; Degree of Master of Surgery instituted.

NEW AFFILIATIONS. Morris Coll., Nagpur, up to M.A. in Econ.; St. Andrew's, Gorakhpur, up to B.A. in Maths.

CONFERENCES. Teachers of Economics resolved to hold annual conferences. Arrangements made for 4th Conference of Indian Econ. Assocn. to be held under auspices of the Univ.

NUMBER OF STUDENTS examined (1918, 1919, 1920). For B.A. and B.Sc.—1521, 1747, 1864; LL.B. (Pre. and Final)—1200, 1129, 1045; L.T.—126, 98, 106; M.B., B.S.—38, 21, 25; M.A. and M.Sc. (Pre. and Final)—403, 352, 383; Comml. Diploma—20, 30, 26.

DEGREES CONFERRED (1918, 1919, 1920). B.A.—395, 487, 566; B.Sc.—75, 92, 116; LL.B.—272, 390, 276; M.B., B.S.—38, 21, 18; L.T.—107, 86, 96; M.A.—82, 88, 72; M.Sc.—15, 14, 13; M.D.—1, 0, 1. One graduate student proceeded to Cambridge to study Physics.

RESIGNATIONS. L. F. Rushbrook Williams, Prof. of Hist., on accepting a Govt. post.

BENARES HINDU UNIVERSITY

LORD RECTOR—THE GOVERNOR-GENERAL OF INDIA, *ex officio*.

VISITOR—THE LIEUT.-GOVERNOR OF THE UNITED PROVINCES, *ex officio*.

CHANCELLOR—THE MAHARAJAH OF MYSORE.

PRO-CHANCELLOR—THE MAHARAJAH OF GWALIOR.

RECTOR—MAHAMAHOPADHYAYA PANDIT ADITYA RAM BHATTACHARYA, M.A.

VICE-CHANCELLOR—Hon Pandit MADAN MOHAN MALAVIYA, B.A., LL.B.

PRO-VICE-CHANCELLOR AND SECRETARY OF THE COURT AND THE COUNCIL—PRINCIPAL A. B. DHRUVA, M.A , LL.B.

TREASURER—Hon. RAJA MOTI CHAND SAHEB, C I.E.

REGISTRAR-IN-CHARGE—Pandit SHYAM SUNDAR SHARMA, M.A.

On April 1, 1916, a teaching and residential Hindu University was incorporated " for the purposes, among others, of making provision for imparting education, literary, artistic, and scientific, as well as agricultural, technical, commercial, and professional, of furthering the prosecution of original research, and of giving instruction in Hindu theology and religion, and of promoting the study of literature, art, philosophy, history, medicine, and science, and of imparting physical and moral training."

A site was presented by the Maharajah of Benares, and by 1920 assets worth Rs. 1,33,00,000 had been acquired. These include perpetual grants by the Govt. of India and by Ruling Chiefs of Rs. 1,00,000 and 75,000 respectively. The Univ. began to function on Oct. 1, 1917, when it became responsible for the maintenance of the Central Hindu College, Benares. Colleges of Oriental Learning and Theology, and a Training College were opened in July and Aug. 1918, a College of Engineering in 1919.

Every member of the *Court*, the supreme governing body, must be a Hindu. It includes representatives of benefactors, graduates, the Senate, the Jain and Sikh communities, Hindu religion and Sanskrit learning, the learned professions. Of the *Senate*, the academic body, at least three-fourths must be Hindus; it includes (1) the Chancellor, Pro-Chancellor, Vice-Chancellor, Pro-Vice-Chancellor, Univ. Profs., and Principals or Heads of Colleges as *ex-officio* members; (2) 5 members nominated by the Visitor; (3) elected members, including representatives of the Court, of Hindu religion and Sanskrit learning, and graduates. The *Council* and *Syndicate* are the executive bodies of the Court and Senate respectively.

LABORATORIES include shop equipped for manufacturing machines, smith and paint shops, iron and brass foundry, and motor-car repair shop. A power-house is attached to the Engin. College.

ADMISSION. The Univ. is, subject to regns., open to persons of all classes, creeds, and castes, but provision is made for religious instruction (which is

compulsory for Hindu students) and examination in the Hindu religion only. Women are eligible for admission to the Univ. and examns., degrees, etc.

FACULTIES. Oriental Learning, Theology, Arts, Science—Pure and Applied, Law.

DEGREES. B.A., M.A., D.Litt., B.Sc., B.Sc. in Appl. Sc. (Engin.), M.Sc., D.Sc., Shastri, Shastracharya, Smritiratna, Smritisagara, Dharmashastri, Dharmacharya, LL.B., LL.M., LL.D., L.T. The minimum qualification for Degree course (5 yrs.) in Engin. is Interm. Sc. examn. of an Indian Univ., with Maths., Phys., and Chem. as optional subjects.

RESIDENCE. Students are required to live in a Univ. or College Hostel, or, subject to the approval of the Pro-Vice-Chancellor, with parents or guardians.

SCHOLARSHIPS. 76 for Arts and Science students of merit, 30 for Teachers' Training College. Numerous other College Scholps.

DEGREES were conferred in 1919 as follows: B.A., 27 (including 1 woman); M.A., 1; B.Sc., 5; M.Sc., 2.

COLLEGES MAINTAINED BY THE UNIVERSITY

CENTRAL HINDU COLLEGE. Principal and Prof. of Sanskrit—A. B. Dhruva, M.A., LL.B. Honorary Univ. Profs.: Sir P. C. Roy, Kt., C.I.E., D.Sc. (Chem.); Nil Ratan Dhar, M.A., D.Sc. (Phys. Chem.); C. V. Raman, M.A. (Phys.); Bhagavan Das, M.A. (Hindu Philos.); B. Keightley, M.A. (Philos.); P. K. Telang, M.A., LL.B. (Hist.); Manoharlal, M.A., N. C. Mehta, M.A., V. G. Kale, M.A., and H. R. Batheja, M.A. (Econ.). Other Univ. Profs.: G. Prasad, M.A., D.Sc. (Maths.); N. P. Gandhi, M.A., B.Sc., A.R.S.M., A.I.M.M., F.G.S. (Geol.); K. R. Gunjikar, B.A. Camb., B.Sc. (Phys.); R. S. Jhamdar, B.A. (Biol.). Other teachers: *Biol.*—R. S. Inamdar, B.A. Camb.; H. R. Mehra, M.Sc.; N. T. Tewari, M Sc.; H. C. Ahuja, B.Sc. *Chem.*—M. B. Rane, M.A.; S. K. Basu, M.Sc.; N. N. Godbole, M.A., B.Sc.; P. S. Varma, M.Sc. *Econ.*—H. L. Chablani, M.A.; R. C. Khanna, M.A.; Gurmukh Singh, M.A.; G. C. Varma, M.A. *Engl.*—P. Seshadri, M.A.; B. Banerji, M.A.; K. Prasad, M.A.; V. G. Desai, M.A.; J. S. Yajnic, M.A., LL.B.; H. B. Malkani, M.A.; S. N. Lal, M.A. *Hist.*—K. C. Chatterji, M.A.; S. N. Bhattacharya, M.A.; G. P. Mehta, M.A. *Maths.*—L. Narayan, M.A.; P. Prasad, M.A., B.Sc.; S. Pande, M.Sc. *Pers.*—Mirza M. Husain, Pandit Harihar Shastri. *Philos.*—P. B. Adhikari, M.A.; A. C. Mukerji, M.A.; I. Tewari, M.A. *Phys.*—N. K. Sethi, M.Sc.; U. S. Asrani, M.Sc. *Sansk.*—N. Bhattacharya, M.A., V.-S.; R. Prasad Shastri, B. Nath, M.A.

COLLEGES OF ORIENTAL LEARNING AND THEOLOGY. Principals: O. L.—Pandit Ramavatar Sarma, M.A., Sahityacharya; Theol.—Pandit Prabhu Datta Agnihotri (acting). 17 other Profs.

TEACHERS' TRAINING COLLEGE. Principal, Pandit C. M. Sukul, M.A., L.T. 2 Assts.

ENGINEERING COLLEGE. Principal and Prof. of Mech. E.—C. A. King, B.Sc., A.R.C.Sc. Other Profs.: B. C. Chatterji, B.A., B.Sc., B.L., A.M.I.E.E. 6 Asst. Profs. and a Demr.

UNIVERSITY OF BOMBAY

CHANCELLOR—THE GOVERNOR OF BOMBAY.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—Sir CHIMANLAL H. SETALVAD, Kt., B.A., LL.B.

REGISTRAR—KHAN BAHADUR FARDUNJI M. DASTUR, M.A.

GENERAL INFORMATION (v. also p. 413)

Founded in 1857, the Univ. has concerned itself mainly with examinations and maintained no teaching staff until 1913. Since then it has provided annually lectures for post-graduate students in scientific and literary subjects. In 1919 it established a School of Economics and Sociology.

LIBRARY (established 1864, owing to Premchund Roychund Benefaction, Rs. 4,00,000), 24,000 vols., including Fawcett Collection (Econ.).

FACULTIES. Arts, Science (including Agric. and Engin.), Law, Medicine.

DEGREES. B.A., M.A.; B.Sc., M.Sc.; B.Com.; LL.B., LL.M.; M.B., B.S.; B.Hy., M.D., D.Hy., M.S.; B.Ag., B.E. (Civ., Mech., Elec.), M.C.E.

RECOGNITION of examns. of other Univs.; Interm. Arts and Sc. examns. of other Indian Univs. and London.

FEES for Univ. post-grad. courses, Rs. 5 each.

RESIDENCE. Board and lodging at Colleges generally from Rs. 40 to Rs. 70 p.m.

SCHOLARSHIPS FOR GRADUATES. In Sanskrit, Bhugwandass Purshotumdass, Rs. 514; Law, Sir Mangaldas Nathubai, Rs. 1000 p.a. for 3 yrs.; Travelling Fellowship, Rs. 700 p.a. for 3 yrs. for Hindus; Technical educn. in England for Hindus, Rs. 2000 p.a. for 3 yrs.; Springer Research Scholp. Lectureships: Wilson Philological, Rs. 750 (6 cold weather lectures); Bhagranlal Indraji, Rs. 1000 (6 lectures on Indian Epig., etc.).

INSPECTION OF SCHOOLS applying for recognition for purposes of the School-Leaving examn. is arranged for by the Joint Examn. Board.

PUBLICATION. *Calendar* (March); vol. i. Rs. 3, vol. ii. (examn. pp.) R. 2.

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

AHMEDABAD, *Gujarat Coll.* (Govt.). In Arts. Principal—W. G. Robertson, M.A., B.D. Aberd. Profs.: *Bot.*—W T. Saxton, M.A. Camb. *Chem.*—A. N. Meldrum, D.Sc. Aberd. *Engl. and Logic*—H. V. Hampton, M.A. Dub. *French*—P. L. Charlier, B.A. *Hist.*—M. S. Commissariat, M.A. *Maths.*—J. C. Swaminarayan, M.A. *Physics*—V. B. Divatia, B.A. Camb., M.A. *Sansk.*—K. V. Abhyankar, M.A. 10 other Lectrs., etc.

BARODA, *State College.* In Arts. Principal—A. M. Masani, M.A., B.Sc. Profs.: *Biol.*—S. V. Sheode, B.Sc. *Chem.*—V. K. Bhagwat, M.Sc. *Engl. and Hist.*—S. L. Joshi, A.M. Col. *Engl.*—A. X. Soares, M.A., LL.B. *Hist. and Pol. Econ.*—P. B. Naik, M.A. *Logic and Mor. Philos.*—A. K. Trivedi, M.A., LL.B. *Maths.*—Gajanan G. Pendse, M.A.; B. Sengupta, M.A. Calc., B.L. *Pers.*—Syed Nawab Ali, M.A. *Phys.*—S. G. Burrow, B.Sc. Lond. *Sansk.*—Bhasker R. Arte, M.A. *Phil.*—A. G. Widgery, M.A. Camb. 6 other Lectrs., etc

BHAVNAGAR, *Samaldas State College.* In B.A. courses. Principal, and Prof. of *Maths. and Nat. Philos.*—Kavasji J. Sanjana, M.A. 8 other Profs., etc.

BOMBAY, *Elphinstone Coll.* (Govt.). In Arts. Principal, and Prof. of *Engl. Lit.*—A. L. Covernton, M.A. Ox. Other Profs.: *Engl. and Hist.*—G. Anderson, M.A. Ox. *Engl.*—C. J. Sisson, M.A. Edin. *French*—L. Peltier, B.A., B.Sc. Paris. *Hist. & Pol. Econ.*—A. C. Farran, B.A. Dub. *Logic and Mor. Philos.*—R. Marrs, M.A. Ox. (on deputation). *Maths.*—A. C. L. Wilkinson, M.A. Camb. *Pers.*—A. K. S. Shaikh, M.A. *Sansk.*—A. B. Gajendruzadkar, M.A. *Chem.*—C. J. Fox, Ph.D., B.Sc. Lond., Principal, Roy. Sc. Inst. *Physics*—G. R. Paranjpye, M.Sc. 6 other Lectrs.

BOMBAY, *Grant Medical College* (Govt.). In Med. and in B.Sc. courses. Dean, and Prof. of *Path.*—Lt.-Col. R. M. Carter, C.B., F.R.C.S., D.T.M. Liv., I.M.S. Other Profs.: *Anat.*—Y. G. Nadgir, M.S. *Bact.*—D. A. Turkhud, M.B., C.M. *Biol. and Med. Jurispr.*—W. Nunan, M.D., Acting. *Chem.*—Lt.-Col. W. H. Dickinson, M.B., B.Ch., I.M.S. *Mat. Med. and Pharm.*—Lt.-Col. E. F. G. Tucker, M.B., B.S., M.R.C.P. Lond., I.M.S.; N. F. Surveyor, M.A., M.D. *Midw. and Dis. of Women and Children*—Lt.-Col. S. C. Evans, M.B., C.M., I.M.S.; Major A. F. Hamilton. *Operative Surg.*—Lt.-Col. T. S. Novis, F.R.C.S., I.M.S. *Ophth.*—Major G. McPherson, M A., M.B., C.M., I.M.S.; Major J. N. Duggan, M.S. *Phys.*—J. A. D'Souza, B.A., L.M. and S. *Physiol., Histol., and Hygiene*—Lt.-Col. L. T. R. Hutchinson, M.D., B.C., D.P.H. Camb., I.M.S *Surg.*—Lt.-Col. A. Street, M.B., F.R.C.S., I.M.S.; A. K. Dalal, F.R.C.S.

BOMBAY, *Government Law School.* In Law. Principal, and Prof. of *Jurispr.*—B. J. Wadia, M.A., LL.B., Bar.-at-Law. Other Profs.: S. S. Rangnekar, B.A., LL.B.; P. W. Kane, M.A., LL.M.; P. B. Shingne, B.A., LL.B.; Mirza A. Khan, M.A.; N. A. Shiveshwarkar, B.A., LL.B.; R. S. Bilimoria, Bar.-at-Law; V. K. Dhurandhar, B.A., LL.B.; J. H. Vakeel, B.A., Bar.-at-Law; H. M. Mehta, B.A.; P. L. Thacker, B.A., LL.B.

BOMBAY, *St. Xavier's College* (S.J.). In Arts. Principal, and Prof. of *Botany and Zool.*—E. Blatter. Other Profs.: *Biol.*—J. P. Mullan, M.A. *Chem.*—S. S. Dastur, M.A.; R. N. Bhagwat, M.A., B.Sc. *Engl. Lit.*—J. Devine. *European Hist.*—J. K. McDowell, M.A. Camb. *French Lit.*—J. Duhr. *Hist. and Econ.*—S. N. Haji, B.A. Ox. *Latin*—A. Soares, M.A.; C. D. Pinto, M.A. *Logic*—F. B. Vachha, B.A. Ox. *Maths.*—F. Hallberg; A. A. Engineer, M.A. Camb. *Pers. and Arabic*—M. M. Abbas, M.A., M.F. *Phys.*—A. Steichen; K. V. Joshi, M.A.; H. A. Patel, M.A., B.Sc. *Sansk.*—R. Zimmermann; S. R. Dharadhar, M.A. 7 Lectrs.

BOMBAY, *Wilson College* (U.F. Church of Scotland). In Arts. Principal, and Prof. of *Phys.*—D. Mackichan, M.A., D.D., LL.D. Glas. Other Profs.: *Biol.*—Vinayak N. Hate, B.Sc. *Chem.*—A. R. Normand, M.A., B.Sc. Edin.; A. E. Walden, B.Sc. *Econ.*—J. Kellock, M.A., B.D. *Engl. Lit.*—E. A. Parker, M.A.; J. McKenzie, M.A. Aberd. *French*—L. Peltier, B.A., B.Sc. Paris. *Hist. and Latin*—R. Strachan, M.A., B.D. Aberd.; N. S.

Takakhav, M.A. *Maths.*—J. McLean, M.A., B.Sc. Aberd. *Pers.*—M. Ahmed, M.A. Calc. *Philos.*—J. R. Cuthbert, M.A. *Philos. and Hist.*—P. A. Wadia, M.A. *Phys.*—H. R. Hamley, M.A., B.Sc.; D. B. Naik, M.A., B.Sc., LL.B. *Sansk.*—Hari D. Velankar, M.A. 6 Asst. Profs.

BOMBAY, *Cama and Allbless Hospitals.* In Midwifery courses for the M.D.

BOMBAY, *Sydenham College of Commerce and Economics.* In Arts for B.Com. Principal, and Prof. of *Econ. and Econ. Hist.*—P. L. Anstey, B.Sc. (Econ.) Lond. 7 Lectrs.

BOMBAY, *Municipal Laboratory.* In Chem. courses for the B.Hy. examn.

DHARWAR, *Government Karnatak College.* In Arts. Principal, and Prof. of *Engl.*—H. G. Rawlinson, M.A. Camb. Other Profs.: *Engl and Philos.*—H. V. Hampton, M.A. Dub. *Engl. and Hist.*—G. B. Jathar, M.A. Edin. *Econ.*—S. G. Bari, M.A. *Sansk.*—V. G. Bhat, B.A. Camb. *Maths.*—C. P. Saldanha, M.A. 7 Lectrs.

JUNAGADH, *Bahauddin College.* In Arts. Principal, and Prof. of *Engl. Hist., and Pol. Econ.*—S. H. Hodivala, M.A. Other Profs.: *Engl.*—K. L. Oza, M.A. *French*—C. F. Saldanha, M.A. *Logic and Mor. Philos.*—Harilal M. Bhatt, M.A. *Maths.*—Narayan B. Pendse, M.A., LL.B. *Pers.*—Aga Abdul Rahimkhan. *Sansk.*—Mahadev M. Joshi, M.A. *Science*—Vasudev S. Ghurye, M.A.; M. M. Mehta, M.A., B.Sc., LL.B. 4 Lectrs.

KARACHI, *Dayaram Jethmal Sind College.* In Arts. Principal, and Prof. of *Engl.*—S. C. Shahani, M.A. Other Profs.: *Bot.*—M. G. Panvani, B.A., M.B. *Engl.*—T. M. Advani, M.A., LL.B. *Engin.*—Motiram H. Advani, L.C.E. *Hist.*—D. T. Mariwalla, M.A. *Philos.*—G. G. Kewalramani, M.A., LL.B. *Maths.*—T. P. Trivedi, M.A., LL.B. *Pers.*—Hotchand M. Gurbaxani, M.A. *Phys. and Chem.*—Suratram B. Butani, M.A., B.Sc. *Sansk.*—Hari Laxman Lagu, B.A. 5 other Teachers.

KOLHAPUR, *Rajaram College* (State). Principal, and Prof. of *Engl. and Hist.*—Naipal Singh, B.A. Ox. 8 other Profs., etc.

POONA, *Deccan Government College.* In Arts. Principal, and Prof. of *Engl.*—H. G. D. Turnbull, M.A. Ox. Other Profs.: *Engl.*—H. Hamill, B.A. Belf. *Hist. and Econ.*—B. K. Thakore, M.A.; R. P. Patwardhan, B.A. Ox. *Logic*—Shankar Gopal Sathe, M.A. *Maths.*—D. D. Kapadia, M.A., B.Sc. *Pers.*—A. N. D. Minocherhomji, B.A. *Sansk.*—S. K. Belvalkar, Ph.D. Harv., M.A. 7 other Teachers.

POONA, *Fergusson College.* In Arts. Under the control of the Deccan Educn. Soc. Principal, and Prof. of *Maths.*—Hon. R. P. Paranjpye, M.A. Camb., B.Sc. Vice-Principal, and Prof. of *Engl.*—W. B. Patwardhan, B.A. Other Profs.: *Bot. and Zool.*—Dhundiraj L. Dixit, B.A. *Chem.*—G. B. Kolhatker, M.A. *Engl. and Sansk.*—V. G. Paranjpe, M.A., LL.B.; Pandurang D. Gune, Ph.D. Leip., M.A. *Engl.*—Ganesh H. Kelker, B.A. Camb., M.A. *German*—Krishnaji K. Joshi, M.A., Ph.D. Würz. *Hist. and Pol. Econ.*—Vaman G. Kale, M.A. *Hist.*—S. R. Kanitkar, M.A.; V. N. Khumbare, M.A. *Logic, etc.*—V. K. Joag, M.A. *Maths.*—V. B. Naik, M.A. *Pali*—Dharmanand Kaushambi. *Pers.*—Mahomedkhan Munshi. *Philos.*—R. D. Ranade, M.A. *Phys.*—Kesheo R. Kanitker, M.A., B.Sc. *Phys. and Chem.*—Mahadeo K. Joshi, M.A. *Sansk.-Shastri*—Wasudeo S. Abhyanker. 12 other Teachers.

POONA, *Government Agricultural College.* In B.Ag. courses. Principal, and Prof. of *Chem.*—H. H. Mann, D.Sc. Leeds, M.Sc. Manc., F.I.C. Other Profs.: *Agric.*—J. B. Knight, M.Sc. Mass. *Bot.*—W. Burns, D.Sc. Edin. 18 other Teachers.

POONA, *Government College of Engineering.* In Engin. and in B.Sc. courses. Principal, and Prof. of *Mech. Engin.*—R. S. Cree Brown, B.Sc., A.M.I.C.E. Other Profs.: *Chem.*—R. J. Patwardhan, M.A. *Civil Engin.*—J. H. Advani, B.Sc., A.M.I.C.E. *Elec. Engin.*—Shiv Narayan, B.E., M.A., B.Sc. *Engin.*—C. Graham Smith, A.M.I.C.E. *Geol.*—G. G. Narke, M.A. Calc., M.Sc. Manc. *Mech. Engin.*—F. E. Bharucha, L.M.E., A.M.I.M.E. 7 other Teachers.

POONA, *New Poona College.* In Arts. Under control of Shikshana Prasarak Mandali. Principal, and Prof. of *Engl. and Sansk.*—V. G. Apte, B.A. Other Profs.: *Econ. and Maths.*—R. P. Sabnis, M.A. Camb. *Engl. and Sansk.*—R. D. Karmarkar, M.A. *Engl.*—R. K. Lagu, M.A. *Philos.*—N. B. Phadke, M.A. *Phys. and Maths.*—D. R. Gharpure, M.A. 10 other Teachers.

SURAT, *Sarvajanik College.* In Arts. Under control of Gujarat Educn. Soc. Principal, and Prof. of *Engl. and Logic*—S. P. Dastur, B.A. Camb. 10 other Profs.

THE YEAR 1920

BENEFACTIONS. S. D. Mankar, Rs. 10,000 for Scholp.; General Pope Bequest, £333 for Scholp.

CHANGES IN REGULATIONS. For B.A. (pass) with languages as optional subject, Marathi, Gujarathi, Canarese, or Urdu may be taken with Engl. or some classical lang. B.A. (Pass), B.Com., and B.E. examns. to be held twice a year.

NEW AFFILIATIONS. Karnatak Coll., Dharwar, 1st grade for 5 yrs.; Surat Arts Coll. for B.A. for 4 yrs.; Rajaram Coll., Kolhapur, for 2 yrs.; Karnatak Educn. Soc.'s New Coll., Dharwar, as 2nd grade Arts Coll. for 3 yrs.

NUMBER OF STUDENTS (1918, 1919, 1920) who presented themselves for B.A.—1393, 1355, 1470; B.Com.—166, 104, 83; B.Sc.—75, 93, 121; B.Ag.—20, 30, 28; B.E.—45, 66, 96; LL.B.—482, 448, 515; M.B., B.S.—226, 215, 90; Higher degrees—70, 64, 104.

HONORARY DEGREES CONFERRED. LL.D.—Lord Sinha, Sir Chimanlal H. Setalvad, Sir Narayan G. Chandavarkar.

OTHER DEGREES (3 yrs., 1918, 1919, 1920). B.A.—751, 821, 682; LL.B.—208, 222, 229; B.Com.—49, 49, 20; B.Ag.—23, 17, 28; B.E.—27, 34, 31; M.B., B.S.—94, 86, 90; B.Sc.—44, 52, 59; Higher—42, 42, 47.

UNIVERSITY OF CALCUTTA

CHANCELLOR—THE GOVERNOR-GENERAL OF INDIA.

RECTOR—THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—The Hon. Sir NILRATAN SIRCAR, Kt., M.A., M.D.

REGISTRAR—J. C. GHOSH, M.A.

CONTROLLER OF EXAMINATIONS—RAI BAHADUR A. C. BOSE, M.A.

INSPECTOR OF COLLEGES—H. C. MOOKERJEE, M.A., Ph.D., *offg.*

UNIVERSITY PROFESSORS

Botany [Sir R. B. Ghosh Prof.
Agharkar, S P., M.A , Ph D
Brühl, P. J., D.Sc., I.S.O., F.C.S., F.G.S. Prof.

Chemistry
Ray, Sir P. C., Kt., C.I.E., D.Sc. Ph.D , F.C.S. Palit. Prof.
Mitter, P. C., M.A., Ph.D. Sir R. B. Ghosh Prof.
Sen, H. K., M.A., D.Sc. Lond. Sir R. B. Ghosh Prof. of Applied C.

Economics [Minto Prof.
Banerjee, P. N., M.A., D.Sc.

English
Stephen, H., M.A., D.D. Prof.

History and Culture, Ancient and Indian [Carmichael Prof.
Bhandarkar, D. R., M.A.

Law [Tagore Prof.
Basu, Karunamay, M.A., M.L.
Brown, A., M.A., LL.B. Prof. of Internat. L. (Public & Private).

Mathematics
Cullis, C. E., M.A., Ph.D. (Higher M.) Hardinge Prof.
Banerjee, S. K., M.A., D.Sc. (Applied M.) Sir R. B. Ghosh Prof.

Mental and Moral Science
Brajendranath Seal, M.A., Ph.D. George V. Prof.

Philology, Comparative
Taraporewala, I. J. S., B.A., Ph.D. Prof.

Physics
Raman, C. V., M.A. Palit. Prof.
Bose, D. M., M.A., Ph.D. Sir R. B. Ghosh Prof.
Ghosh, Phanindranath, M.A., Ph.D. Sir R. B. Ghosh Prof. of Applied P.

Zoology
Maulik, S., B.A. Camb. Prof.

LECTURERS holding endowed Lectureships:

..... on Comparative Religion.
Pandit Khuddi Jha on Maithili.
Ganapat Sing, B.A., on Maithili.
A. K. Guha, M.A., B.L., on Bengali.
..... on Hindi.
..... on Oriya.

COUNCIL OF POST-GRADUATE TEACHING IN ARTS AND SCIENCE, 1920–21. President—The Hon. Justice Sir Asutosh Mookerjee, Kt., C.S.I., M.A., D.L., D.Sc., Ph.D. Secretaries: *Arts*—G. N. Banerjee, M.A., Ph.D. *Science*—H. C. Banerjee, M.A., B.L.

POST-GRADUATE TEACHERS IN ARTS. *Economics*, 19; *English*, 22; *History*, 15; *History and Culture, Ancient Indian*, 24; *Indian Vernaculars*, 23; *Mathematics, Pure*, 12; *Pali*, 14; *Persian and Arabic*, 6; *Philology, Comp.*, 4; *Philosophy*, 15; *Psychology, Expl.*, 8; *Sanskrit*, 22; *Anthropology*, 7.

POST-GRADUATE TEACHERS IN SCIENCE. *Botany*, 5; *Chemistry*, 11; *Geology*, 3; *Mathematics, Applied*, 11; *Physics*, 16; *Physiology*, 2; *Zoology*, 4.

UNIVERSITY LAW COLLEGE. Principal—S. C. Bagchi, B.A., LL.B., LL.D. Professors: *C.P. Code and Evidence*—Birajmohan Majumdar, M.A., B.L., and 4 others. *Crim. L.*—Haraprasad Chatterjee, M.A., B.L., and 4. *Equity*—The Principal and 6. *Hindu L.*—Jyotiprasad Sarbadhikary, M.A., B.L., and 9. *Internat. L., Private*—P. Chaudhury, M.A. *Jurispr. and Roman L.*—Karunamay Basu, M.A., B.L., and 9. *Land Laws*—Tarakchandra Chakrabarti, B.A., B.L., and 4. *Real Property, Contracts and Torts*—S. C. Ray, B.A., LL.B., and 6. *T.P. Act, Mahom., and Pers. L.*—Nagendranath Mitra, M.A., B.L., and 6.

GENERAL INFORMATION (v. also p. 413)

Founded in 1857, this Univ. has been mainly an examining body, but has provided facilities for research since 1893 (when the Premchand Roychand Endowment was applied to this purpose), and post-graduate teaching since 1909. In 1917 a new scheme for post-graduate teaching came into operation under which all students who desire instruction in the M.A. or M.Sc. courses in Calcutta must be registered in the Senate House as Univ. students. A Commission under the Presidency of Sir Michael Sadler, K.C.S.I., appointed by the Govt. of India in Sept. 1917 to inquire into the condition and prospects of the Univ. and consider the question of a constructive policy, presented a comprehensive report and a series of important recommendations in March 1919.

The Univ. buildings include a Senate House, completed in 1872 at a cost of Rs. 4,35,000, the Durbhanga LIBRARY with Law College, Hostel and Univ. offices (Rs. 12,00,000), the Univ. Press, and Examn. Halls and Lecture Rooms. LABORATORIES (in Univ. Coll. of Science): Phys., Chem., Applied Maths., Expl. Psych., Biol.

FACULTIES. Arts, Science, Law, Medicine, Engineering. The Affiliated Institutions (v. *infra*) include Colleges of Law (Calcutta—Ripon and Univ.—, Dacca, Gauhati, Rangoon), Medicine (Belgachia and Calcutta), Engineering (Sibpur), and Teaching (Calcutta—David Hare and Diocesan—, Dacca).

DEGREES, ETC. B.A., M.A., D.Phil.; B.Sc., M.Sc., D.Sc.; L.T., B.T.; B.L., M.L., D.L.; M.B., M.D., M.S., M.O., D.P.H.; B.E., D.Sc. (Engin.).

RESIDENCE. At the Hardinge Hostel for Law students the monthly charges amount to from Rs. 23 to Rs. 25.

RESEARCH STUDENTSHIPS, ETC. Premchand Roychand, Rs. 1400 p.a. for 3 yrs., awarded annually, 1 in Lit. and 1 in Science subject; Sreegopal Basumallik (fellowship), Rs. 1500 p.a. for 3 yrs. in Vedanta Philos.; Durbhanga, Rs. 600 in Med.; Sir R. B. Ghosh, Rs. 900, 8 annually to Science students to be attached to the Sir R. B. G. Profs.; Guruprasanna Ghosh, 1 annually, tenable for 3 yrs. in Japan (Rs. 1000) or Europe or America (Rs. 2000) by Bengal Hindus; Palit., Rs. 1,00,000 endowment for research or investigation out of India; numerous other scholarships, medals, and prizes.

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

[M.A., etc.=Affiliated up to M.A., etc., standard.]

BANKURA, *Wesleyan College.* B.A. Principal—A. E. Brown, M.A. Camb., B.Sc. Lond. Vice-Principal—E. J. Thompson, B.A. Lond. 14 other Teachers.

BARISAL, *Brojomohan Institution.* B.A. Principal, and Prof. of *Engl. Lit.* —N. L. Mukerjee, M.A. 17 other Teachers.

BELGACHIA, *Carmichael Medical College.* M.B. Principal—M. N. Banerjee, B.A., M.R.C.S. Lond. Profs.: *Anat.*—M. N. Bose, M.B., C.M. Edin. *Physiol.* —S. P. Niyogi, M.Sc., M.B. *Mat. Med.*—P. Nandi, M.D. 33 other Teachers.

BERHAMPUR, *Krishnath College.* B.A. and B.Sc. Principal—N. G. Leather, M.A. Camb. 41 Profs. and other Teachers.

BHOWANIPUR, *South Suburban College.* Principal, and Prof. of *Econ.*— Panchanan Sinha, M.A., B.L. 20 other Teachers.

CALCUTTA, *Bangabasi College.* B.A. and B.Sc. Principal—G. C. Bose, M.A., M.R.A.C., M.R.A.S. 39 Teachers.

CALCUTTA, *Bethune College* (Girls). B.A. Supported by Govt. Principal —Miss G. M. Wright. 11 Teachers.

CALCUTTA, *City College.* B.A. and B.Sc. Principal, and Prof. of *Engl. Lit.*—Herambachandra Maitra, M.A. Vice-Principal, and Prof. of *Maths.*— K. P. Chattoraj, M.A. 44 other Teachers.

CALCUTTA, *David Hare Training College* (Govt.). B.T. Acting Principal, Prof. of *Hist. of Educn.*—Chintaharan Chakravarti, M.A., B.T. Other Profs.: Binayabhusan Sarkar, B.A., B.T.; S. N. Gupta, B.A., B.T.; Banabilas Ray, M.A., B.T.; G. C. Das-gupta, B.A., B.T.

CALCUTTA, *Diocesan College* (Girls). B.A., B.T. Principal—Sister Mary Victoria. 19 Teachers.

CALCUTTA, *Indian Association for the Cultivation of Science,* 210 Bow Bazar St. B.Sc. President—The Govr. of Bengal. Hon. Secy.—Amrita Lal Sircar, I.M.S., F.C.S.

CALCUTTA, *Medical College of Bengal.* M.B. Principal, and Prof. of *Medicine*—Lt.-Col. B. H. Deare, M.R.C.P., D.P.H., I.M.S. (acting). Other Profs.: *Anat.*—N. Pan, M.D. *Anat. and Physiol.*—Capt. J. A. Shorten, I.M.S. *Bot. and Zool.*—Asst. Surg. E. N. Ghosh. *Chem.*—..... *Dentistry* —J. E. Gill, L.D.S. *Hygiene*—C. A. Bentley, M.B., D.P.H. *Mat. Med. and. Clin. Med.*—Lt.-Col. D. McCay, M.D., M.R.C.P., I.M.S. *Med. Jurispr.*— Major N. P. Sinha, I.M.S. (ret.). *Midw.*—Lt.-Col. Leicester, I.M.S. *Ophth. Med. and Surg.*—Lt.-Col. W. V. Coppinger, M.D., F.R.C.S., I.M.S. *Path.*— Lt.-Col. Sir L. Rogers, Kt., C.I.E., M.D., F.R.C.S., I.M.S. *Physics*—Tulsidas Kar, M.A. *Surgery, Principles of*—Lt.-Col. F. P. Cannor, D.S.O., F.R.C.S., I.M.S.; *Surgery, Clin. and Operative*—Lt.-Col. R. P. Wilson, F.R.C.S., I.M.S. 29 other Teachers.

CALCUTTA, *Presidency College.* B.A. and B.Sc. Maintained by Govt. Number of undergrads. limited to 650. Principal—W. C. Wordsworth, M.A. Other Profs.: *Engl. Lit.*—J. R. Barrow, M.A.; J. W. Holme, M.A. Liv.; M. Ghose, B.A. Ox.; Praphullachandra Ghosh, M.A.; N. N. Chakrabarti, M.A.; Srikumar Banerjee, M.A.; Bhupendrachandra Basu, M.A.; S. C. De,

M.A., B.L. *Ment. and Mor. Philos. and Logic*—Adityanath Mukherjee, M.A., Ph.D.; Khagendranath Mitra, M.A.; R. K. Datta, M.A. *Hist.*—J. N. Das Gupta, B.A. Ox.; K. Zachariah, B.A.; Binaykumar Sen, M.A.; U. N. Ghoshal, M.A. *Pol. Econ. and Pol. Philos.*—J. C. Coyajee, B.A., LL.B.; A. C. Sengupta, M.A. Edin.; Panchanandas Mukherjee, M.A. *Sansk., Pali, and Bengali*—Asutosh Sastri, M.A.; Nilmani Chakrabarti, M.A.; Harihar Banerjee, M.A. *Arabic and Pers.*—Maulavi Muhammad Hasan; S.-ul-U. Hedayat Hossain. *Maths. and Astron.*—C. E. Cullis, M.A., Ph.D.; D. N. Mallik, B.A., Sc.D.; Saradaprasanna Das, M.A.; J. M. Bose, M.A., B.Sc. Edin; Karunamay Khastgir, M.Sc.; H. C. Sengupta, M.A. *Phys.*—E. P. Harrison, M.A., Ph.D.; P. C. Mahalanabis, B.A., B.Sc.; H. C. Banerjee, M.A. *Chem.*—Jyotibhushan Bhaduri, M.A., F.C.S. *Physiol.*—S. C. Mahalanabis, B.Sc.; N. C. Bhattacharyya, M.A., B.Sc. *Botany*—J. C. Nag, B.Sc.; S. C. Banerjee, M.A.; S. C. Sinha, M.A. 25 Assts. and Demrs.

CALCUTTA, *Ripon College*. B.A., B.Sc., B.L. *Law Dept.* Principal—S. C. Chaudhuri, M.A., LL.B. Camb., Bar.-at-Law. Profs.: J. N. Kanjilal, M.A., D.L., Gangadhar Mukerjee, B.L. 10 other Teachers.

College Department. Principal, and Prof. of *Engl.*—J. K. Bhattacharyya, M.A., B.L. Vice-Principal, and Prof. of *Engl.*—R. N. Ghose, M.A. 38 other Teachers.

CALCUTTA, *St. Paul's Cathedral Mission College* (formerly "The Church Missionary Society's College"). B.A. Number of students limited to 250. Principal, and Prof. of *Hist.*—W. E. S. Holland, M.A. Ox. (E. C. Dewick, M.A. Camb., offg.). Vice-Principal, and Prof. of *Engl.*—A. B. Johnston, M.A. Camb. 15 other Teachers.

CALCUTTA, *St. Xavier's College* (S.J.). B.A., B.Sc. Students of other religious persuasions are admitted. Rector, and Prefect of Studies—J. Fallon, S.J. 27 Teachers.

CALCUTTA, *Sanskrit College*. B.A. Acting Principal, and Prof. of *Sanskrit*—Muralidhar Banerjee, M.A. Other Profs.: Maha. P. N. Tarkabhushan (*Hindu Law*); N. N. Chakrabarti, M.A. (*English*); K. D. Banerjee, M.A. (*History*). 11 other Teachers.

CALCUTTA, *Scottish Churches' College*. B.A. and B.Sc. Formerly the General Assembly's Institn. and Duff Coll. Principal, and Prof. of *Chem.*—J. Watt, M.A., D.D., F.C.S. Other Profs.: *Engl.*—J. C. Scrimgeour, M.A.; A. Cameron, M.A.; A. Warren, B.A. Lond.; J. D. Sinclair, M.A., B.D.; N. K. Siddhanta, M.A.; M. K. Mookerjee, M.A. *Philos. and Logic*—W. S. Urquhart, M.A., D.Phil.; G. Ewan, M.A.; P. C. Sen, M.A.; B. N. Ray, M.A. *Econ.*—J. C. Kydd, M.A.; B. C. Datta, M.A. *Maths.*—G. S. Mill, M.A., B.Sc.; M. S. Sarkar, M. A.; A. C. Ganguli, M.Sc.; A. C. Sen, M.A.; M. L. Sarkar, M.A.; S. K. Ray, M.A. *Sansk.*—B. L. Banerjee, M.A.; K. P. Mookerjee, N. L. Vidyabinod. *Physics*—N. C. Ray, M.A.; R. K. De, M.A., B.Sc. *Chem.*—B. C. Dutt, M.A., F.C.S.; S. N. Sen, M.A. 10 other Teachers.

CALCUTTA, *Univ. Law College* v. *supra*.

CALCUTTA, *Vidyasagar College* (formerly Metropolitan Institn.). B.A. and B.Sc. Principal—Saradaranjan Ray, M.A. Vice-Principal, and Prof. of *Engl. Lit.*—J. R. Banerjea, M.A., B.L. 41 other Teachers.

CHITTAGONG, *College* (Govt.). B.A. and B.Sc. Principal, and Prof. of *Engl.*—J. R. Barrow, B.A. Camb. Prof. of *Phys.* (offg. Principal)—P. C. Kundu, M.A. 22 other Teachers.

COMILLA, *Victoria College.* B.A. Principal and Prof. of *Engl. Lit.*—Satyendranath Basu, M.A. 12 other Teachers.

COOCH-BEHAR, *Victoria College.* B.A. Principal, and Prof. of *Maths.*—Upendranarayan Sinha, M.A. 14 other Teachers.

DACCA COLLEGE. M.A. in English; B.A., B.Sc., B.L. Supported by Govt. Principal—F. C. Turner, M.A. Ox. Profs.: *Engl. Lit.*—Egerton Smith, M.A.; Rakhaldas Ghosh, M.A.; S. N. Bhadra, M.A.; P. B. Rudra, M.A. *Maths.*—B. M. Sen, B.A. Camb., M.Sc.; N. C. Ghosh, M.A.; Bankimdas Banerjee, M.A. *Hist.*—R. B. Ramsbotham, B.A. Ox.; A. K. Mukhopadhyay, M.A.; P. C. Mukerjee, M.A. *Pol. Econ.*—S. C. Basu, A.M. Nebr., B.A.; D. N. Banerjee, M.A. *Sansk.*—S. C. Chakrabarti. *Chem.*—B. N. Das, B.Sc. Lond., M.A.; Haridas Saha, M.A.; A. C. Sarkar, D.Sc. *Phys.*—Adinath Sen, M.A., B.Sc. Glas., Ph.D.; W. A. Jenkins, M.A.; Surendranath Ghosh, M.A. *Philos.*—G. H. Langley, M.A. Lond.; M. N. Mukerjee, M.A. *Arabic and Pers.*—Maulvi Najmul Hosein Chaudhuri; Maulavi Muhammad Irfan, M.A. 13 other Teachers.

Law College. Vice-Principal—N. C. Sengupta, M.A., D.L. Lecturers—Saratchandra Ghosh, B.L.; R. K. Doss, Bar.-at-Law.

DACCA, *Jagannath College.* B.A. Principal, and Prof. of *Engl.*—Lalitmohan Chatterjee, M.A. 22 other Teachers.

DACCA, *Training College* (Govt.). B.T. Principal—H. A. Stark, B.A. (acting). Vice-Principal—Manaranjan Mitra, B.A., B.T. (acting). Profs.: Abdur Rahman Khan, M.A., B.T.; Nagendranath Mazumdar, M.A., B.T. (acting). 4 other Teachers.

DAULATPUR, *Hindu Academy.* B.A. Principal—Dwijapada Banerjee, M.A. Vice-Principal—Surendranath Basu, M.A. 22 other Teachers.

GAUHATI, *Cotton College* (Govt.). M.A. in English (partially); B.A. and B.Sc. Principal—F. W. Südmersen, B.A. Lond. Profs. of *Engl.*: R. C. Goffin, M.A. Lond.; Praphullachandra Ray, M.A.; Asutosh Chatterjee, M.A. 21 other Teachers.

GAUHATI, *Earle Law College* (Govt.). Principal—J. Barooah, Bar.-at-Law. Profs.: T. R. Phookun, Bar.-at-Law; Satyanath Bara, B.L.; A. E. Brown, M.A., LL.B., Bar.-at-Law.

HUGHLI COLLEGE. B.A. and B.Sc. Maintained by Govt. Principal, and Prof. of *Maths.*—J. M. Bottomley, M.A. Ox. 20 other Teachers.

KRISHNAGAR COLLEGE (Govt.). B.A. and B.Sc. Principal—R. N. Gilchrist, M.A. Aberd. 20 other Teachers.

MYMENSINGH, *Anandamohan College.* B.A. Principal—Jajneswar Ghosh, M.A., Ph.D. 21 Teachers.

RAJSHAHI, *Government College.* B.A. and B.Sc. Principal, and Prof. of *Phys.*—Rai Kumudinikanta Banerjee, Bahadur, M.A. 32 other Teachers.

RANGOON COLLEGE. B.A., B.Sc., B.L. Principal—M. Hunter, M.A., C.I.E., F.C.S. Profs.: *Engl.*—G. H. Luce, M.A.; A. Campbell, M.A.; C. W. Ainley, M.A.; W. G. Fraser, M.A. *Philos.*—L. P. Saunders, B.A.; G. R. T. Ross, M.A., D.Phil.; W. Douglas, M.A., B.Ph. *Maths.*—L. G. Owen, M.A.; Rai Sahib K. P. De, M.A. *Pali*—Mg. Tin, M.A. *Phys.*—K. M. Ward, B.A. *Chem.*—A. E. Bellars, M.A.; R. Venkateswaran, B.A. 22 other Teachers.

RANGOON, *Judson College* (American Baptist Mission). B.A. Principal—D. G. Gilmore, M.A., D.D. Vice-Principal—W. St. John, B.D., Ph.D. 17 other Teachers.

RANGPUR, *Carmichael College.* B.A. Principal, and Prof. of *Engl.*—C. H. Watkins, B.A. Ox., M.A. Lond., D.Th. Heid. 18 other Teachers.

SERAMPORE COLLEGE (Baptist Missionary Soc.). B.A. Principal, and Prof. of *Engl. and Hist.*—G. Howells, M.A., B.D., B.Litt., Ph.D. Vice-Principal, and Prof. of *Philos.*—J. Drake, B.A., B.D. 17 other Teachers.

SIBPUR, *Bengal Engineering College* (Govt.). B.E. Principal—B. Heaton. Profs.: *Bengal Engin.*—T. H. Richardson, B.A., B.A.I. Dub., M.I.C.E. Irel. *Elec. Engin.*—W. H. Everett, B.A., B.E. R.U.I., M.I.M.E., M.I.E.E. (on deputation); B. C. Gupta (offg.). *Mech. Engin.*—..... *Mining*—E. H. Robertson, B.A., M.Sc. Birm., M.I.E.E., F.G.S. *Phys. and Maths.*—A. Macdonald, M.A., B.Sc. Glas. *Chem.*—W. Saunders, B.Sc. Lond. 16 other Teachers.

SYLHET, *Murarichand College* (Govt.). B.A. Principal—A. C. Datta, B.A. Camb. 16 Teachers.

THE YEAR 1919–20

BENEFACTIONS. 12 gifts aggregating Rs. 22,200 for Medals and Prizes.

NEW DEVELOPMENTS. Committee appointed to consider health of students, physical educn., organized games, and other forms of recreation.

NEW AFFILIATIONS. Bethune Coll., B.A. Pass Maths. and Bot.; St. Xavier's, B.A. Pass and Hons. Engl., Vernac. Comp., Pass Maths., Hist., Philos., Sansk., and Pers.; Brojomohan, Barisal, B.A. Hons. Philos.; Carmichael, Rangpur, B.A. Hons. Sansk.; Serampore, B.A. Pass Maths.

CHANGES IN REGULATIONS. Syndicate obtained power to add to list of vernaculars for Interm. and B.A. exams. Anthropology included in list for M.A. examn.

MIGRATION. 257 students migrated to this Univ. from Patna and 40 from other Indian Univs.

UNIVERSITY OF DACCA (BENGAL)

VISITOR—H. E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR—P. J. HARTOG, C.I.E., M.A., B.Sc.

The establishment of the Univ. will take place under the terms of an Act passed in 1920 by the Indian Legislative Council. The appointments to the teaching staff are being considered (Dec. 1920), and it is expected that the Univ. will be opened in July 1921. In the meantime, the existing Dacca College and Jagannath College will remain affiliated to the Univ. of Calcutta. The Act provides for the constitution of Faculties of Arts, Science, Law, Agriculture, and Medicine. It is proposed to constitute Departments in English Lang. and Lit., Phonetics, Maths., Philos., History (including Indian H.), Politics, Pol. Econ., Sansk. and Bengali, Arabic and Islamic Studies, Persian and Urdu, Physics, Chem., Law, Educn., Physical Educn. To these it is hoped to add at an early date Depts. of Bot., Zool, Physiology., Exp. Psychology, and Statistics. The initial Staff will comprise about 15 Profs., 18 Readers, and 60 Lectrs., Assts., and Demrs.

The Univ. is being constituted in its main lines in accordance with the recommendations of a Committee presided over by Mr. (now Sir Robert) Nathan in 1912 and by the Calcutta Univ. Commission of 1917–19, presided over by Sir Michael Sadler. The Report of this Commission states that " two main factors may be clearly distinguished in the origination of the Scheme : first and foremost the desire of the Musalmans of Eastern Bengal to stimulate the educational progress of their community, and, secondly, the desire of the Govt. of India to create a new type of residential and teaching Univ. in India, as opposed to the present affiliating type. To these must be added a third factor of especial importance, the desire of the Govt. to relieve the congestion of the Univ. of Calcutta." * Although special attention will be devoted to Islamic Studies and to the needs of the Musulman community, the Univ. will be open to all, without distinction of sex, race, creed, or class. It will be a unitary and residential Univ., of which the constitution will resemble in many respects that of the modern English Univs. The Authorities of the Univ. will include a Court, an Executive Council, an Academic Council, and Faculties ; and the Teaching Staff will be mainly responsible for all matters connected with teaching and examns. The students (other than those living under specially approved conditions) will reside in Halls and Hostels situated in the Univ. domain, and the Univ. teachers will also reside in houses erected for them thereon. The domain consists of about a square mile of fine park land, including over 100 acres of playing fields. It is adjacent to the Civil Station of Dacca and to a park called the Ramna, and lies from 1 to 1½ miles north-west from the centre of Dacca City. It is provided with electric light and power.

The chief existing buildings for teaching and administrative purposes include : A Senate House with offices ; a two-storied building, containing about 200 rooms, which cover 117,000 feet of floor space (at present utilized

* Chapter xxxiii. of the *Report* deals in great detail with the scheme for the Dacca Univ.

partly as a hostel for Muslim students), to be used for Class-rooms and Library; Chemical and Physical Laboratories, each including about 10,000 sq. feet of floor space, and now being enlarged; the buildings of the present Dacca College, including the Curzon Hall (which accommodates about 2000 persons) and 20 class-rooms; the Dacca Hall buildings, including two quadrangles, for 400 students; the Jagannath Hall buildings, in course of construction, which it is hoped to complete by July, and which will provide for 300 students; a small Archæol. Museum. To these will be added: a Muslim Hall, ultimately for 400 students; Hostel accommodation for Law students and students in the Dept. of Educn.; Biological Laboratories.

The Univ. will be differentiated from the Univs. in India previously created by the high standard of its entrance test, which is to be equivalent to that of the present Intermediate examn. of other Indian Univs. The undergraduate course in Indian Univs. in the Arts and Science is a 4 yrs course, the Interm. examn. being taken at the end of the 2nd year. The change in the standard of entrance has been made in accordance with the Recommendations of the Calcutta Univ. Commission.

UNIVERSITY OF MADRAS

CHANCELLOR—THE GOVERNOR OF MADRAS.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—The Hon. Mr. K. SRINIVASA AIYANGAR, B.A., B.L.

REGISTRAR—F. DEWSBURY, B.A., LL.B.

UNIVERSITY PROFESSORS

Indian History and Archæology
S. Krishnaswami Aiyangar, M.A.

Indian Economics
Gilbert Slater, M.A., D.Sc.
S. A. Khan, B.A., D.Litt.
Asst. Prof.

GENERAL INFORMATION (v. also p. 413)

This Univ., founded in 1857, has hitherto been mainly an examining body, but has, since 1912, maintained a small teaching staff and organized special lectures by persons eminent in Arts and Science in Europe and India. It appoints annually ordinary Univ. lecturers, and arranges inter-collegiate lectures mainly to assist the affiliated colleges in Honours courses.

LIBRARY, 22,000 vols.

FACULTIES. Arts and Science, Law, Medicine, Engineering.

ADMISSION. The Matricn. examn. has been almost completely superseded by the School-Leaving Certif. scheme.

DEGREES, ETC. B.A., B.A. (Honours), M.A.; L.T.; B.L., M.L., LL.D.; M.B., B.S., L.M.S., B.San.Sc., M.D., M.S.; B.E.

DIPLOMAS. Titles in Oriental Learning (4 yrs. course); Econ. (1 or 3 yrs.). CERTIFICATES of Proficiency in Oriental Learning (2 yrs.).
For the B.A. (Honours) an extra yr. of study is required.

RECOGNITION of examns. of other Univs. is not granted in general terms. The Syndicate deals with each application on its merits.

FEES for Univ. examns. range from Rs. 12 for matricn. to Rs. 100 for higher degrees.

RESIDENCE, ETC. Minimum cost of board and lodging for students living in European style, Rs. 50 p.m., for Indians, Rs. 30. A Students' Club, started under the auspices of the Madras Govt. in 1919, provides inexpensive meals and facilities for games and social intercourse irrespective of caste or creed.

RESEARCH STUDENTSHIPS not exceeding 8 annually, tenable 3 or 4 yrs., value Rs. 100 to Rs. 200 p.m.

PUBLICATIONS. *Calendar* (Jan.)—vol. i., Administration, Regns., Syllabuses; vol. ii., Affld. Colls., Endowments, Graduates. *Examn. pp.* (Sept.). *Annual Report. Minutes.*

AFFILIATED COLLEGES RECOGNIZED IN DEGREE COURSES

ANANTAPUR, *Ceded Districts College.* Principal—A. Arulanandam, B.A. Ox.

HYDERABAD, *Nizam College.* Principal, and Prof. of *Hist.*—K. Burnett, M.A. Ox.

KUMBAKONAM COLLEGE (Govt.). Ag. Principal—P. Rajagopala Aiyar, M.A.

MADRAS, *Christian College.* Supported by Church and U.F. Church of Scotland and several Missionary Societies. Acting Principal, and Prof. of *Hist.* —E. M. Macphail, M.A., B.D. Other Profs.: *Chem.*—F. Barnes, B.Sc. *Engl. Lang. and Lit.*—S. J. Crawford, B.A., B.Litt.; F. W. Henderson, M.A.; K. C. Macartney, M.A.; W. A. Jeffery, M.A.; W. Meston, M.A., B.D. *Hist.*—F. E. Corley, M.A. *Ment. and Mor. Sc.*—A. G. Hogg, M.A. *Phys. Sc.*—A. Moffat, M.A., B.Sc. 27 other Teachers.

MADRAS, *Pachaiyappa's College.* For Hindus. Principal, and Prof. of *Engl.*—C. L. Wrenn, M.A. 5 other Profs.

MADRAS, *Presidency College* (Govt.). Principal, and Prof. of *Engl.*—H. S. Duncan, M.A. Profs.: *Bot.*—P. F. Fyson, B.A. Camb. *Chem.*—B. B. Dey, D.Sc. (Ag.). *Econ.*—J. Mathai, M.A., D.Sc. *Engl.*—H. C. Papworth, M.A.; S. E. Ranganathan, M.A., L.T. *Geol.*—H. Narayana Rau, M.A. (acting). *Hist.*—M. A. Candeth, B.A., LL.B. *Maths.*—K. Ananda Rao, B.A. Camb. (acting). *Ment. and Mor. Sc.*—A. Chakravarti, M.A., L.T. (acting). *Physics*—Anantapadmanabha Rao, M.A., L.T. *Math. Phys.*—P. V. Seshu Aiyar, B.A., L.T. *Sansk.*—S. Kuppuswami Sastri, M.A. *Zool.*—K. Ramunni Menon, M.A. Camb. 29 other Teachers.

MADRAS, *Queen Mary's College.* Principal—Miss de la Hey. 5 other Profs.

MADRAS, *Teachers' College* (Govt.). Principal—T. V. Sivakumara Sastri, B.A., L.T. (acting). 13 other Teachers.

MADRAS, *Women's Christian College.* Principal, and Prof. of *Engl.*, etc.—Miss E. McDougall, M.A. Vice-Principal, and Prof. of *Maths.* and *Phys.*—Miss E. M. Coon, M.A., Ph.D. 6 other resident Profs.

MADRAS, *Law College.* Principal—A. Davies, M.A., Bar.-at-Law. Profs.: C. Madhavan Nair, B.A., Bar.-at-Law. 6 Asst. Profs.

MADRAS, *Medical College* (subject to the authority of the Surg.-Genl. with the Govt. of Mad.). Its certifs. are recognized by the Colls. of Surgs. of Eng., Scot., and Irel. Women students are admitted free. Principal—Lt.-Col. T. H. Symons, M.D., I.M.S. Other Profs.: *Anat.*—G. Rama Rao, M.B., C.M. *Chem.*—Capt. A. F. MacCulloch, M.A., B.Sc. *Dent. Surg.*—C. F. Badcock, L.D.S. *Hyg.*—P. S. Chandrasekhar, B.A., M.D. *Mat. Med.*—Major A. W. J. Lynsdale, I.S.M.D. *Med.*—Major F. F. Elwes, M.D., C.I.E., I.M.S. *Midw.*—Major C. A. F. Hingston, I.M.S. *Ophth.*—Major H. Kirkpatrick, M.B., I.M.S. *Path. and Med. Jurispr.*—Major A. J. H. Russell, M.D., I.M.S. *Physiol.*—Major A. C. Ingram, M.D., D.Ph., I.M.S. *Surg. and Biol.*—Lt.-Col. W. J. Niblock, M.B., F.R.C.S.I., I.M.S.

MADRAS, *College of Engineering.* Principal—W. H. James, M.Sc., M.I.M.E., A.M.I.C.E. Profs.: *Mech. Engin.*—C. L. Cartwright, M.I.M.E., A.M.I.C.E., M.I.E.E. *Elec. Engin.*—H. B. Mathews, M.I.E.E. *Maths.*—K. R. Ramaswami Aiyangar, M A., L.T.

MADURA, *American College* (Mission). Principal, and Prof. of *Engl.*—W. M. Zumbro, M.A. Prof. of *Engl.*—E. L. Notling, B.A. *Hist. and Econ.*—A. J. Saunders, M.A. *Phys.*—E. M. Flint, M.A., B.Sc. 15 other Teachers.

MANGALORE, *St. Aloysius' College* (S.J.). Rector and Principal—C. Perazzi, D.D.

MANNARGUDI, *Findlay College* (Wesleyan Mission). Principal, and Prof. of *Engl.*—R. Smailes, M.A. Prof. of *Hist.*—G. Satyanarayanamurti, M.A. 13 other Teachers.

MASULIPATAM, *Noble College.* H, La (Church Miss. Soc.). Govt. annual grant of Rs. 6000. Principal—W. C. Penn, M.A. Ox. Vice-Principal—W. S. John, M.A. (acting). 17 Profs., etc.

RAJAHMUNDRY, *Government College.* Principal, and Prof. of *Engl.*—C. A. Wilkinson, B.A. (acting). 15 other Teachers.

TRICHINOPOLY, *St. Joseph's College* (S.J.). Open to all creeds and classes, but primarily for R.C.'s. Rector—P. Carty. Principal—F. Bertram. Vice-Principal—C. Leigh. Profs.: *Bot. and Phys.*—E. Gombert. *Chem.*—A. Hass. *Org. Chem. and Zool.*—F. J. Caius. *Econ.*—P. Carty. *Engl.*—H. J. Quinn. *Hist.*—L. V. Newton. *Maths.*—C. Pruvôt. *Phys.*—D. Honoré; P. E. Subrahmanya Aiyar, M.A. 30 other Teachers.

TRICHINOPOLY, *S.P.G. College.* Principal and Warden, and Prof. of *Engl.*—A. F. Gardiner, M.A. Vice-Principal—W. H. M. Lonsdale, M.A. 27 Profs. and Lectrs.

TRIVANDRUM, *Maharaja's College* (Govt.). Principal, and Prof. of *Appl. Maths. and Physics*—J. Stephenson, B.Sc. Lond.; R. Kaishnaswami Aiyar, M.A. (Ag. Principal). 29 other Teachers.

TRIVANDRUM, *Maharaja's Law Coll.* (Govt.). Principal—H. S. Chatfield, B.A., Bar.-at-Law. Senr. Lectrs.—E. J. John, B.A., B.L.; K. G. Parameswara Menon, B.A., B.L. Lectrs.—M. K. Govinda Pillai, B.A., B.L.; V. S. Subramani Aiyar, B.A., B.L.; P. K. Kesava Pillai, B.A., B.L.; M. K. Narayana Pillai, B.A., Bar.-at-Law; P. N. Lakshmanan, B.A., M.B., C.M., M.R.C.P., M.R.C.S., D.P.H. (*Med. Jurispr.*).

TRIVANDRUM, *Training College* (Govt.). Principal—G. F. Clark, M.A., Ph.D. Vice-Principal—S. G. Barker, D.I.C. Lond., Ph.D. Senr. Lectr.—K. P. Ukandan Unni Nair, M.A., L.T. Organizer of *Manual Training*—H. W. Green (Dipl. Lond. and Sweden).

VIZIANAGRAM, *Maharaja's College.* Principal, and Chief Lectr. in *Engl.*—K. Ramanujachariyar, M.A., B.L.

THE YEAR 1919–20

BENEFACTIONS, 1917–18. For 3 Scholps., Rs. 16,000; medals, Rs. 1500.

NEW POSTS. Asst. Prof. and 2 Readers in Economics.

NUMBER OF STUDENTS appearing for examn. B.A. Pt. I., 2455, Pt. II., 2092; B.A. Hons., 239; L.T., 282; B.L., 789; M.B., B.S., L.M.S., and B.S.Sc., 84; B.E., 39; Dipl. O.L., 40; Dipl. Ec., 12; M.L., 58; Research Students, 6.

DEGREES CONFERRED (1917, 1918, 1919). B.A.—623, 649, 712; B.A. (Hons.) and M.A.—195, 143, 252; B.L.—264, 176, 284; M.B., B.S., L.M. and S., or B.S.Sc.—31, 32, 39; L.T.—109, 88, 170; B.E.—10, 9, 14; M.L.—8, 9, 11.

UNIVERSITY OF MYSORE

CHANCELLOR—H.H. THE MAHARAJA OF MYSORE.

PRO-CHANCELLOR—H.H. SRI NARASIMHA RAJA WADIYAR, G.C.I.E., Yuvaraja of Mysore.

VICE-CHANCELLOR—Sir LESLIE C. MILLER, Kt., C.B.E.

REGISTRAR—V. SUBRAHMANYA IYER, B.A.

LIBRARIANS—N. NARASIMHAMURTHI, M.A., B.L.; (Oriental L.) R. SHAMA SASTRI, B.A.

CONSTITUENT COLLEGES

At Mysore

The Maharaja's College.
The Maharani Women's College.

At Bangalore

The Central College.
The College of Engineering.

PROFESSORS, ETC.

[M., W., C., E. = at Maharaja's, Women's, Central, Engineering College. V = Visiting]

Botany (C.) [Acting Prof.
Sampatkumaran, M.A., Ph.D.Chic.
1 Demr.

Chemistry

Usher, F. L., B Sc Lond., Prof (C.).
Srinivasa Rao, M. G., M A. Prof. (C.)
3 other Teachers (C. and E.).

Commerce (M.)

Shah, K. T., B.A., B.Sc. Lond., Bar.-at-Law Prof.
1 Lectr

Economics

Subba Rao, M.A. Camb., Bar.-at-Law (Principal) Prof. (M.).
2 Lectrs. (W. and E.).

Engineering (E.)

Seshachar, K. R., B.A., B.E. (acting Principal) (Civ. E.) Prof.
Raghavendra Rao, S., B.A., B.Sc. Birm., M.I.Met. (Mech. E.)
3 Asst. Profs. [Prof.

English

Mackintosh, A. B. B.A. Ox. M.A. St. And. Prof. (M., W.).
Rollo, J. C., B.A. Ox., M.A. Glas. Prof. (M., W.)
Sell, F. R., M.A. Ox. Prof. (C.)
McAlpine, E. G., M.A. Edin. Prof. (C.)
Hensman, Mrs. S. G., M.A. Prof. (W.)
Srikantia B. M., M.A., B.L. Junr. Prof. (M., W.)
Sri Rukminiamma, K. D., B.A. Supt. (W.)
4 other Teachers.

French

Argaut, J. B. Lectr. (V., M., W.)
Collart, Father Lectr. (V., C.)

Geology (C.)

Sampathiengar, P., M.A. Prof
2 other Teachers.

Hindustani and Persian

Aga M. Abbas Shooshtry Asst. Prof. (M.).
2 Munshis (M., C.).

History

Radhakumud Mookerji, M.A. Ph.D. Prof. (M., W.)

Krishnaswami Iyengar, S., M.A.
Prof. (M.).
Subba Rao, B., B.A.
Junr. Prof. (M., W.).
1 Asst. Prof. (M., W.).

Kannada [Asst. Prof. (M.).
Krishnappa, B., M.A.
1 Tutor (C.).

Mathematics [Prof. (C.).
Narayana Iyengar, M. T., M.A.
4 other Teachers (C. and E.).

Philosophy (M.)
Wadia, A. R., B.A. Camb., Bar.-at-Law Prof.
Radhakrishnan, S., M.A., L.T.
Prof.
1 Tutor.

Physics
Metcalfe, E. P., B.Sc. Lond.
(Principal) Prof. (C.).
Venkatanaranappa, B., M.A.
Junr. Prof. (C.).
3 other Teachers (C. and E).

Sanskrit
Hiriyanna, M., M.A., L.T.
Prof. (M.).
4 other Teachers (M., C.).

Tamil and Telugu
4 Pandits (M., C.).

Zoology (C.)
Narayana Rao, C. R., M.A., L.T.
Acting Prof.
2 other Teachers.

GENERAL INFORMATION

This Univ was founded in 1916 with two constituent Colleges, the Central Coll., Bangalore, and Maharaja's Coll., Mysore, which had for 25 yrs. been affiliated to the Univ. of Madras. To these have since been added the Women's and Engineering Colleges. The executive government is vested in a Council of from 9 to 15 members, comprising the Vice-Chancellor, Inspr.-Genl. of Educn., Principals of Constituent Colls., Deans of Faculties, of Arts and Science, and member appointed by the Chancellor, or, if Govt. so direct, elected by the Senate from among its members. The Senate is charged with the organization of instruction, etc. It consists of from 40 to 70 members, including the Council, the Univ. Profs., and persons nominated by the Chancellor or elected with his approval.

LIBRARIES. Univ., 5000 vols.; Colls., 17,000; Sansk. and Oriental, 11,000 vols. and 9000 MSS.

FACULTIES. Arts, Science. TERMS: Jan.-April, July-Dec.

ADMISSION to B.A. or B.Sc. courses is normally by Entrance examn. in English, a second language, and either (*a*) Phys., Chem., and Maths. or Nat. Sc., or (*b*) Hist., Logic., and Sansk. or Pers. or Elem. Econ. Candidates prepare for this by an *extra* yr. of study in Collegiate High Schools after completing the ordinary High School course. The Interm. examn. of any other Indian Univ. is accepted as equivalent to the 1st yr. examn. and qualifies for admission to the 2nd yr. class. Admission to the B.E. course is by the Entrance examn. with Phys., Chem., and Maths.; to the B.Com. course by the Entrance examn. or corresponding examn. of any other Univ. Graduates in Arts of other Indian Univs. are admitted to the M.A. courses provided they have passed their degree examns. in cognate subjects. The B.A. and B.Sc. of other Indian Univs. are recognized for the purpose of admission to the B.T. course.

DEGREE COURSES. 3 yrs.—B.A., B.Sc., B.Com.; 4 yrs.—B.E.; graduate course for M.A.—2 yrs. Courses for B.T. (teaching) and M.Sc. not yet organized. The D.Lit. and D.Sc. are Honorary.

RECOGNITION by other Univs. The B.A. and B.Sc. qualify for admission to M.A. and M.Sc. courses of Calc.; the B.A. for admission to the LL.B. course of Bombay or Madras. The 1st yr. Certif. examn. is recognized by Bombay as equal to the same examn. of one of its Art Colleges. With Phys., Chem., and Maths., or Zool., Geol., and Bot., it is accepted by Calc. as equal to the I.Sc. examn. for admission to the Prelim. Sc. M.B. examn.

FEES for courses for Bachelorship, Rs. 60 p.a. (B.E., Rs. 100).

RESIDENCE. Hostels at Colleges. Cost of living about Rs. 140 p.a. at Mysore, Rs. 220 at Bangalore.

An APPOINTMENTS BUREAU is maintained.

INSPECTION OF SCHOOLS recognized by the Univ. is done by Profs. deputed by the Council.

THE YEAR 1919–20

BENEFACTIONS received up to Sept. 1920 brought the total endowment fund up to Rs. 1,46,000.

NEW BUILDINGS. Unions at Mysore and Bangalore, Rs. 90,000. Engineering College extension, Rs. 45,000.

CHANGES IN REGULATIONS. Intermediate examns. in Arts and Science of other Indian Univs. recognized for admission to 2nd yr. class.

NUMBER OF STUDENTS. Maharaja's Coll., 466; Central, 234; Maharani's, 20; Engineering, 112.

DEGREES CONFERRED. B.A., 78; B.Sc., 21; B.Com., 20; M.A., 12.

THE UNIVERSITY OF THE PANJAB, LAHORE

PATRON—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE LIEUT.-GOVERNOR OF THE PANJAB.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE — Hon. Sir JOHN MAYNARD, M.A. Ox., K.C.I.E., C.S.I., I.C.S.

REGISTRAR—A. C. WOOLNER, M.A. Ox.

UNIVERSITY PROFESSORS AND LECTURERS

[(U.) = maintained entirely by the Univ.]

Arabic [Prof. (U.).
M. Shafi, B.A. Camb., M.A.
Sadr-ud-din, D.Litt. Lectr.
M. Asghar Ali, M.O.L. Lectr.

Botany
Shiv Ram Kashyap, B.A. Camb., M.Sc., Rai Sahib. Prof.
Birbal Sahni, D.Sc. Camb. Prof. (U.).

Chemistry
..... Prof. (U.).

Economics
Myles, W. H., M.A. Edin. Prof. (U.).

History
..... Prof. (U.).

Mathematics
C. V. H. Rao, B.A. Camb., M.A. Prof. (U.).
G. S. Chowla, M.A. Prof.
Devi Dyal, M.A. Lectr.
S. N. Das Gupta, M.A. Lectr.
Hem Raj, M.A. Lectr.
P. Samuels Lal, M.A. Lectr.

Persian
Maitra, M.A. Calc. Lectr.
Fazl-i-Haqq, M.A. Lectr.
M. Ismail, M.A. Calc. Lectr.
M. Mohd. Umar Lectr.

Sanskrit
Woolner, A. C., M.A. Ox. P'pal, Oriental Coll. (U.).
Lakshman Sarup, M.A. Prof. (U.).
Ram Labhaya, M.A. Reader (U.).
Raghubar Dayal, M.A., M.O.L. Lectr.
Gulbahar Singh, M.A., LL.B. ,,
Ganpat Rai, M.A. ,,

Urdu Literature
Sh. Abdul Qadir, B.A. Lectr.

Zoology
Boulenger, C. L., D.Sc., M.A. Camb. Prof. (U.).
G. Matthai, M.A. Prof.

UNIVERSITY COLLEGES

ORIENTAL COLLEGE, LAHORE. Principal—A. C. Woolner, M.A. Prof. of Arabic—M. Shafi, M.A. Sanskrit Reader—Ram Labhaya, M.A. Head Pandit—Siva Datta, M.M. Head Maulvi—M. Nazim-ud-din. Head Munshi —Muhammad Din.

LAW COLLEGE, LAHORE. Principal—Kanwar Sain, M.A., Bar.-at-Law. Lectrs.—K. C. Chatterji, B.A., B.L., Pleader; S. Hassan, B.A., Bar.-at-Law; 4 Part-time Lectrs.

GENERAL INFORMATION (v. also p. 413)

Established in 1882, the University confined its activities, until recently, mainly to examinations, the control of affiliated institutions, and the provision of instruction in its Oriental and Law Colleges. It has now undertaken the maintenance of Professors and co-ordination of higher teaching in other subjects.

LIBRARY, 30,000 vols. Astronomical OBSERVATORY.

FACULTIES. Oriental, Arts, Law, Medicine, Science, Agriculture, Commerce.

DEGREES. B.A., M.A., D.Lit.; B.Sc., M.Sc., D.Sc.; B.Sc. (Agr.); LL.B., LL.D.; M.B., B.S., M.S., M.D.; B.T.; (in Oriental Learning) B.O.L., M.O.L., D.O.L.

Diploma in Commerce (2 yrs. course). In the Faculty of Oriental Learning a 2 yrs. course from Matricn. leads to an Interm. examn., and further courses of 2 yrs., 1 yr., and 2 yrs. to the B.O.L., M.O.L., and D.O.L. successively. Examns. are also held for Proficiency, High Proficiency, and Honours in Arabic, Sanskrit, and Persian. Honours admit to the Oriental titles: Maulvi Fazil (Arabic), Shastri (Sanskrit), and Munshi Fazil (Persian); and High Proficiency to Maulvi Alim, Visharada, and Munshi Alim. Similar examns. are held in Urdu, Hindi, Panjabi, and Pashto.

The B.T. is open to any one who after graduating in any faculty other than the Oriental has undergone a 1 yr.'s course at an Affiliated Training Coll.

RECOGNITION OF OTHER INSTITUTIONS. An equivalent examn. of any recognized Univ. may be accepted in lieu of Interm. Arts or Science, B.A. or B.Sc., for the purposes of admission to a higher examn.

SCHOLARSHIPS FOR GRADUATES. Several of from Rs. 20 to Rs. 25 p.m. for 2 yrs. in Oriental Studies, Arts, and Science. Research studentships tenable for from 2 to 4 yrs. in Oriental Hist., Sanskrit, Pali or Prakrit, Arabic, Panjabi, Science.

PUBLICATIONS. *Calendar*, including Examn. pp. (Sept.), Rs. 5; *Univ. Gazette.*

AFFILIATED COLLEGES RECOGNIZED IN DEGREE COURSES

[B.A., M.A., etc.—A.,B.,C.,E., Ec., G., H., M., Ph., Ps., S., Z.=Affiliated up to B.A., M.A., etc. in Arabic, Botany, Chemistry, English, Economics, Geology, History, Maths., Philos., Physics, Sanskrit, Zoology.]

Medical

LAHORE, *Medical College* (Govt.). M.D., M.S. Class accommodation for 400 Degree students. Principal, and Prof. of *Med.*—Lt.-Col. D. W. Sutherland, C.I.E., M.D., C.M. Edin., I.M.S. Other Profs.: *Anat.*—Major H. H. Broome, M.B., Ch.B. Edin., I.M.S.; *Eye, Ear, and Throat Dis.*—Major W. W. Jeudwine, I.M.S.; *Forensic Med.*—Civ. Surgeon, Lahore; *Hygiene*—The San. Commr.; *Mat. Med.*—Major J. J. Harpur Nelson, I.M.S.; *Mental Dis.*—Major J. F. Fleming, I.S.M.D.; *Midwifery*—Lt.-Col. G. Tate, I.M.S.; *Path.*—Lt.-Col. W. H. C. Forster, I.M.S.; *Physiol.*—Major Hughes, I.M.S.; *Surg.*—Lt.-Col. E. V. Hugo, M.D., B.S. Lond., F.R.C.S., I.M.S. Number of students in M.B., B.S. classes, 395; passed in Final M.B., B.S. (1919), 40.

DELHI, *Lady Hardinge College for Women.* 2nd Prof. examn. Principal—Miss K. A. Platt, M.B.

Teaching

LAHORE, *Central Training College* (Govt.). B.T. Principal—H. G. Wyatt, M.A. Ox. Vice-Principal—J. E. Parkinson, M.A. Camb. Students in B.T. classes, 44. Passed (1919), 48.

Agriculture

LYALLPUR, *Agricultural College* (Govt.). B.Sc.Agr. Research Depts. in Agr., Bot., Chem. Principal, and Prof. of *Agr.*—W. Roberts. Prof. of *Bot.* and Economic Botanist—D. Milne, B.Sc. Prof. of *Chem.* and Chem. Adviser to Govt —B. H. Wilsdon, B.A., I.E.S.

Arts and Science

AMRITSAR, *Khalsa College.* M.A.—Ec., Maths. Large Collegiate School attached. Principal, and Prof. of *English*—G. A. Watken, M.A. *Chem.*—W. H. F. Armstrong, M.A.; *Econ.*—B. K. Chatterji, M.A.

DELHI, *St. Stephen's College.* M.A.—A., E., M., Ph., S. Established by Cambridge Mission. Principal, and Prof. of *Econ.*—S. K. Rudra, M.A. Calc. *Philos.*—N. K. Sen, M.A. Calc.; *Hist.*—P. N. F. Young, M.A. Camb.; *Maths.* S. H. Thomas, M.A. Students in Degree classes, 119. Passed (1919), 36.

DELHI, *Hindu College.* Principal, and Prof. of *Engl.*—N. V. Thadani, M.A. Bom. Students in B.A. class, 104. Passed (1919), 22.

JAMMU, *Prince of Wales College.* M.A.—Ec.; M.Sc.—G. Principal, and Prof. of *English*—S. Robson, M.A. Edin. *Geol* —D. N. Wadia, M.Sc. Bom.

LAHORE, *Dayanand Anglo-Vedic College.* M.A.—Ec., S. 600 resident and 400 other students. Principal, and Prof. of *Chem.*—Lala Sain Das, M.A. Calc., B.A. Camb. Students in Degree classes, 338. Passed (1919), 114.

LAHORE, *Dyal Singh College.* M.A.—M., Ph. Principal, and Prof. of *Philos.* —..... Students in Degree classes, 200. Passed (1919), 101.

LAHORE, *Forman Christian College.* M.A.—E., Ec., H., M., M.Sc.—C. Supported and controlled through Board of Trustees by Panjab Mission of American Presb. Church. Has a Dept. of Indust. Chem. Principal, and Prof. of *Econ.*—E. D. Lucas, M.A. *English*—J. B. Weir, M.A.; *Hist.*—Ross Wilson, M.A.; *Maths.*—S. N. Das Gupta, M.A. Calc. Students in B.Sc., B.A., and M.A. classes, 459. Passed (1919), 169.

LAHORE, *Government College.* M.A.—A., E., Ec., H., M., Ph., S., M.Sc.—B., C., Ps., Z. Principal, and Prof. of *Physics*—A. S. Hemmy, M.Sc. Melb., B.A. Camb. Profs. of *Arabic*—M. Sadr-ud-din, D.Litt.; *Bot.*—Shiv Ram Kashyap, B.A. Camb., M.Sc., Rai Sahib; *Econ.*—G. D. Sondhi, B.A. Camb.; *English*—J. R. Firth, M.A.; Muhd. Said, M.A.; *Hist.*—H. L. O. Garrett, M.A. Camb.; *Maths.*—Gopal Singh Chawla, M.A. Panj. and Calc., B.A. Camb.; *Zool.*—G. Matthai, B.A. Camb., M.Sc. Students in Degree classes, 202. Passed (1919), 53.

LAHORE, *Islamia College.* M.A.—A., Ph. For Muhammadans. Principal, and Prof. of *Econ.*—H. Martin, M.A. Ox. Profs. of *Arabic*—M. Asghar Ali, M.O.L.; *English*—.....

LAHORE, *Sanatan Dharma College.* M.A.—Ec., S. Principal, and Prof. of *Sansk.*—Raghubar Dayal Shastri, M.A., M.O.L. Students in Degree classes, 156. Passed (1919), 65.

LAHORE, *Kinnaird Girls' College.* Principal, and Prof. of *Econ.*—Miss E. M. Edwards, M.A. Students in B.A. class, 17. Passed (1919), 41.

PATIALA, *Mohindra College* (State). No fees. M.A.—Maths. Principal, and Prof. of *Hist.*—Man Mohan, M.A. Students in B.A. class, 136. Passed (1919), 41.

PESHAWAR, *Edwardes College.* Principal, and Prof. of *English*—A. C. Clarke, M.A. Students in B.A. class, 29. Passed (1919), 11.

PESHAWAR, *Islamia College.* For Muhammadans. 6 miles from Peshawar. Residential. Large Collegiate School attached. Principal, and Prof. of *English*—L. Tipping, M.A. Camb. Students in B.A. class, 43. Passed (1919), 9.

RAWALPINDI, *Gordon Mission College.* Principal, and Prof. of *English*—E. L. Porter, M.A., D.D. Westmr., U.S.A.

SIALKOT, *Murray College.* Maintained by Panjab Mission of Church of Scotland. Principal, and Prof. of *Engl.* and *Philos.*—W. Scott, M.A., B.D. Students in B.A class, 56. Passed (1919), 23.

SRINAGAR, *Sri Pratap College* (State). M.A.—M., Ph., S. Principal, and Prof. of *Philos.*—Ikbal Kishen Shargha, B.A. Calc. Students in Degree classes, 67. Passed (1919), 13.

THE YEAR 1919–20

BENEFACTIONS. Mrs. Sachchidananda Sinha's bequest, Rs. 50,000 for Lectureship in Maths. or Physical Science. Govt. grant for Chair of Zoology and Chemistry Dept.

NEW DEVELOPMENTS. Interm. Colleges opened at Multan, Ludhiana, Rawalpindi (D.A.—V.), Ambala Cantt. Honours School in Economics provided for Honours classes opened in Botany and Zoology in Lahore.

CHANGES IN REGULATIONS. In B.A. and B.Sc. examns. candidates can no longer reappear in one subject only, but provision is made for compensating for weakness in one subject by excellence in others; in view of extra expense involved by new Honours schools, examn. fees were raised.

NUMBER OF STUDENTS appearing for Degree examns. in 1919 and in 1920 in Sansk.—193, 180; Arabic—45, 61; Pers.—206, 224; B.A.—1299, 1469; B.A. Hons.—212, 201; M.A.—92, 107; B.T.—42, 52; B.Sc.—94, 106; B.Sc. Hons.—46, 52; M.Sc.—22, 24; LL.B.—307, 361; M.B., B.S.—48, 53; M.D.—0, 3.

PATNA UNIVERSITY

CHANCELLOR—Sir E. A. GAIT, K.C.S.I., C.I.E., Hon. Ph.D., LIEUT.-GOVR. OF BIHAR AND ORISSA.

VICE-CHANCELLOR—V. H. JACKSON, M.A. Ox.

REGISTRAR—R. SHAW, M.A. Aberd.

UNIVERSITY READERS AND LECTURERS, 1920–21

Chemistry
Caldwell, K. S., B.Sc. Wales, Ph.D. Leip., M.A. Lectr.

Economics
Hamilton, C. J., M.A. Ox. Reader (Indian E.).
Horne, E. A., M.A. St. And. Lectr.

English
Armour, J. S., M.A. Glas. Lectr.

Ethnology
Roy, Rai Bahadur S. C., M.A., B.L. Reader.

History
Haraprasad Shastri, Mahamahopadhyaya, C.I.E. Reader (Ancient Indian H.).
Sarkar, Jadunath, M.A. Reader (Moghul Period).
Batheja, H. R., B.A. Ox., M.A. Lectr.

Mathematics
Prasad, Ganesh, M.A., D.Sc. Reader.
Moore, W. W. T., M.A. Dub. Lectr.
Chatterji, A., M.A. Lectr.

Physics
Mukarji, A., M.A. Lectr.

Sanskrit
Prasada, Jagannatha, M.A., B.L. Lectr.
Thakur, Amareshwar, M.A. Lectr.

GENERAL INFORMATION

Founded Oct. 1, 1917. Most of the teaching is conducted in the "admitted" Colleges, v. *infra*.

LIBRARY, 3000 vols.

FACULTIES. Arts, Science, Educn., Law.

DEGREES. B.A., M.A., Ph.D., B.Sc., M.Sc., D.Sc., B.Ed., B.L., M.L., D.L.

RECOGNITION of examns. is accorded by Ox., Camb., Dub., Edin., and the General Med. Council.

PUBLICATIONS. *Calendar*, Rs. 4; *Courses of Studies*, Re. 1; *Question Papers*, Rs. 4; *Regns.*, Re. 1; *Minutes*, Rs. 2.

ADMITTED COLLEGES—(*a*) Admitted to Degree Standard

PATNA College. B.A., B.Sc. Principal, H. Lambert, M.A. Camb. (acting). Professors: *Arabic and Persian*—Azimuddin, Ahmad, Ph.D. Leip. *Chem.*—

A. S. Khan, M.Sc. Manc.; R. C. Roy, M.Sc. *Econ. and Pol. Philos.*—*C. J. Hamilton; H. R. Batheja, B.A. Ox.; R. K. Jha, M.A. *Engl.*—†J. S. Armour; D. Auchterlonie, M.A. Aberd.; J. C. Banerjee, M.A. *History*—W. Owston Smith, M.A. Camb.; G. S. Bhate, M.A. Edin. *Maths.*—†W. W. T. Moore; †A. Chatterje. *Philos.*—C. C. Sinha, M.A. *Physics*—†A. Mukarji; K. Prasad, B.A. Camb.; K. Dayal, M.Sc. *Sanskrit*—Jagannatha Prasad, M.A. 18 other Profs., Lectrs., and Demrs.

CUTTACK, *Ravenshaw College.* B.A., B.Sc. Principal, and Prof. of *Engl.*—P. O. Whitlock, M.A. Camb. (acting). Other Profs.: *Botany*—P. Misra, M.Sc. *Chem.*—A. C. Ganguli, B.A. *Econs.*—S. C. Bardhan, M.A. *Hist.*—†Jadunath Sarkar. *Law*—Syed S. S. Alam, Bar.-at-Law. *Maths.*—S. K. Ganguli, M.A. *Persian and Urdu*—A. F. M. Abdul Kadir, M.A. *Philos.*—M. M. Senapati, M.A. *Physics*—S. C. Mazumdar, M.A. *Sanskrit and Oriya*—K. N. Das, M.A. 22 other Profs., Lectrs., and Demrs.

BANKIPUR, *Bihar National College.* B.A., B.Sc. Principal, and Prof. of *Philos.*—D. N. Sen, M.A. Other Profs.: *Chem.*—B. K. Chowdhry, M.Sc. *Engl.*—S. M. Huq, M.A. *History*—H. C. Rai Chaudhary, M.A. *Maths.*—L. K. Ghosh, M.A. *Persian*—A. A. Wahab, M.A. *Philos.*—G. P. Hazari, M.A. *Physics*—D. K. Bhattacharayya, M.Sc. *Sanskrit*—S. N. Bhattacharayya, M.A. 23 other Profs., Lectrs., and Demrs.

MUZAFFARPUR, *Greer Bhumihar Brahman College.* B.A. Principal—R. P. Khosla, M.A., B.A. Ox. Profs.: *Arabic and Pers.*—A. B. P. Sinha. *Chem.*—R. K. Basu, M.Sc. *Econ.*—N. R. Malkani, M.A., B.T., LL.B. *Engl.*—M. N. Chatterji, M.A. *Hist.*—S. N. Basu, M.A. *Maths.*—K. P. Das, M.Sc. *Philos.*—J. K. Sarkar, M.A. *Physics*—R. C. Sen, M.A. *Sansk.*—A. P. Banarji, M.A. 10 other Profs., Lectrs., and Demrs.

BHAGALPUR, *Tej Narain Jubilee College.* B.A. Principal, and Prof. of *Engl.*—N. N. Raye, M.A. Other Profs.: *Chem.*—H. L. Das Gupta, M.A. *History*—S. Bhattacharyya, M.A. *Philos.*—B. C. Sinha, M.A. *Physics*—S. M. Bhattacharyya, M.A. *Pol. Econ.*—T. N. Basu, M.A. *Sansk.*—K. C. Chakravarti, M.A. 17 other Profs., Lectrs., and Demrs.

HAZARIBAGH, *St. Columba's College.* B.A. Principal, and Prof. of *Philos.* and *Engl.*—F. H. W. Kerr, B.A., T.C.D. Other Profs.: *Chem.*—H. C. Mukharji, M.A. *Econs.*—P. C. Bose, M.A. *Engl.*—G. C. P. Stevenson, B.D., T.C.D. *History*—J. N. Maitra, M.A. *Logic and Ethics*—A. O. Hardy, M.A., T.C.D. *Maths.*—J. C. Forrester, M.A., T.C.D. *Pers.*—B. D. Singh Choudhury. 4 other Profs.

PATNA *Training College.* B.Ed. Principal—J. H. Thickett, M.A. Camb. Vice-Principal—M. Hashim, M.A., Dip.Ed. Ox. Profs.: Kalika Singh, M.A., B.T.; H. L. Bhattacharji, M.A., B.T.; Syed Tahiruddin Ahmad, B.A., L.T.

PATNA *Law College.* B.L. Principal—Saiyid Zainuddin, B.L. Profs.: Ragho Prasad, B.L.; S. P. Varma, B.A., Bar.-at-Law; Shiveshwar Dayal, M.A., B.L. 2 other Lectrs.

(*b*) Admitted to Intermediate Standard

Patna New College, Bihar Sharif Nalanda College, Monghyr Diamond Jubilee College, Cuttack Ravenshaw Girls' High School, Interm. classes.

* Univ. Reader. † Univ. Lectr.

THE YEAR 1920

BENEFACTIONS. Sir E. Gait, Rs. 1500 for gold medal; Sir R. Prasad Singh, Rs. 1000 for medal; Hon. Sachchidananda Sinha, Rs. 1500 each for 2 medals; Rajas Kalanand Sinha and Kirtyanand Sinha, Rs. 20,000 for Univ. Readership in Indian Econs., and Rs. 5000 for books on Econs.

NEW AFFILIATIONS. Nalanda College and Ravenshaw Girls' High School senior classes.

NUMBER OF STUDENTS who presented themselves for Degree examns. B.A., 449; B.Sc., 53; B.Ed., 14; B.L., 117; M.A., 25.

DEGREES CONFERRED. B.A., 231; B.Sc., 19; B.L., 79; B.Ed., 11; M.A., 15.

THE INDIAN INSTITUTE OF SCIENCE, BANGALORE

PATRON—H.E. THE VICEROY OF INDIA.

DIRECTOR—Sir ALFRED BOURNE, K.C I.E., D Sc., F.R.S.

PROFESSORS, ETC.

General Chemistry
Watson, H. E., D.Sc. Lond., A.I C. Prof.

Organic Chemistry
Sudborough, J. J., D.Sc. Lond., Ph.D. Heid , F.I C. (Head of Dept. of Genl. and O.C.) Prof.
Ramaswamy Iyer, P., M.A. Mad. Asst.

Applied Chemistry [Prof.
Fowler, G. J., D.Sc., F.I.C., F.C.S.

Electrical Technology [Prof.
Hay, A., D.Sc. Edin., M.I.E.E.
..... Asst. Prof.

Mechanical Engineering
Kann, J. H. C., B.Sc. Asst. Prof.

French and German [Lectr.
Tacchella, C. F. H., M.A. Dub.

The object of the Institute, opened July 24, 1911, is to establish Chairs and Lectureships in Science and Arts, especially with a view to the promotion of original investigations and their utilization for the benefit of India, and to provide and to assist in the provision of suitable libraries, laboratories, and all other necessary appliances. Industrial Chemistry is at present the main feature of the Institute.

Associateships are awarded for 5 terms (of which there are 3 in a yr.—July-Sept., Nov.-Dec., Jan.-March) devoted entirely to research work and satisfactorily accounted for; also for 3 terms *plus* a period of research elsewhere before or after the period spent at the Institute. *Fellowships* may be awarded to Associates who, having spent 5 yrs. in actual practice, produce satisfactory evidence of original and valuable research work, or other contribution to the advancement of scientific or industrial knowledge. *Certificates* are granted to students who satisfactorily complete approved courses of study. 13 Associateships have been granted.

Students reside in a *Hostel.* Messing charges are from Rs. 28 to Rs. 35 p.m.; rent, lighting, and service, Rs. 10 p.m.

POSTAL ADDRESS: Indian Institute of Science, Hebbal, Bangalore District. TELEGRAMS—Science, Bangalore.

THE YEAR 1919–20. *Number of Students and other Workers*: Genl. and Org. Chem.—43 ; Applied Chem.—19 ; Elec. Tech.—11. *Current Expenditure*, Rs. 2,79,000.

UNIVERSITY OF MALTA

VISITOR—H.E. THE GOVERNOR OF MALTA.

PRESIDENT OF THE GENERAL COUNCIL—His Hon. THE LIEUT.-GOVERNOR.

RECTOR—Prof T. ZAMMIT, C.M.G., M.D., Hon. D.Litt. Ox.

REGISTRAR AND SECRETARY—E. STAINES.

PROFESSORS, LECTURERS, ETC.

Anatomy and Histology
Busuttil, R., M.A., M.D. Prof.
Briffa, J., B.Sc., M.D. Asst. Prof.

Biology v. Nat. Hist.

Chemistry
Zammit, T., C.M.G., M.D., D.Litt. Ox. Ag. Prof.
Borg, S., M.D. Demr. in Expl. Sc.

Engineering and Architecture
Galea, R. V., L S. & A. (also Lectr. in Descr. Geom. and Arch. Drawing) Prof.

English Literature
Shepherd, E. R. Prof.

Latin and Italian Literature
Bartoli, A. Prof.

Law
Vassallo, Most Rev. Can. E., Jur. Can. Doc. (Canon L.) Prof.
Caruana, G., LL.D. (Civ. L.) Prof.
Mallia, C., B.Litt., LL.D. (Commil. L.) Prof.
Vassallo, E. C., M.A., LL.D. (Const. and Internat. L.) Prof.
Randon, L. A., M.A., LL.D. (Crim. & Natural L.) Prof.
Bartolo, A., B.Litt., LL.D. (Hist. of Legisln.) Prof.

Logic and Philosophy
Cuschieri, Very Rev. A., C.C. Prof.

Mathematics and Pract. Engin.
Nixon, W. F., B.Sc. Lond., A.R.C.Sc. Prof.

Mechanics, Applied, and Drawing
Gatt, J. L., L.S. and A. Prof.

Medicine and Surgery v. *infra*

Natural History
Meli, E., M.D. Ag. Prof.

Philosophy v. Logic

Physics
Agius, T., M.A., M.D. Prof.
Borg, S., M.D. Demr. in Expl. Sc.

Physiology
Samut, R., M.B., C.M. Edin. Prof.

Political Economy
Sultana, A., LL.D. Prof.

Theology
Formosa, Mgr. G., B.A., D.D., J.U.D. Prof. of Dogm. T.
Grima, Mgr. Can. C., D.D. Prof. of Moral T.
Gonzi, M., B.Litt., J.C.D., D.D. Prof. in Holy Script. and Hebrew.

Medicine

Forensic M. and Toxicology
Ullo Xuereb, G. (v. Mental) Prof.

Hygiene and Preventive M.
Bernard, A. V., M.B.E., M.D. Prof.

Materia M., Pharmacy and Therap.
Cassar, I., M.D. Prof.

Medicine
Mifsud, C., M.D. Prof.
Paris, A., M.D. Asst. Prof.

Mental Diseases		*Ophthalmology*	
Ullo Xuereb, G., M.D.	Prof.	Vassallo, A., M.A., M.D.	Prof.
Midwifery and Gynæcology		*Surgery*	
Debono, G., M.D.	Prof.	Cassar, S., M.D.	Prof.
Ellul, J., B.Sc., M.D.	Asst. Prof.	Borg, F., B.Sc., M.D.	Asst. Prof.

AFFILIATED INSTITUTIONS: Archiepiscopal Seminary; Episcopal Seminary, Gozo; Flores' Coll.; St. Aloysius' Coll. (S.J.).

GENERAL INFORMATION

The College, founded in 1591–93 under the direction of the Jesuit Fathers, and empowered in 1727 by Grandmaster Manoel de Vilhena to grant degrees in Philosophy and Theology, was, on the expulsion of the Jesuits from the Islands, incorporated as a University by Grandmaster Pinto with the confirmation in 1769–71 of the Pope, the Medical School previously attached to the Hospital of the Order being merged in it as the Faculty of Medicine. Closed for 2 yrs. during the French occupation, the Univ. was reopened in 1800 as a National Institution. It is now governed by a Statute of 1915.

LIBRARY, 5000 vols. A public library maintained in connexion with the Univ. contains over 100,000 vols. and is rich in MSS. and rare editions of great historical interest. MUSEUMS: Nat. Hist. and Archæol. OBSERVATORY, full meteorol. equipment and seismograph. BOTANICAL GARDEN. HOSPITALS, available for Clinics: general (240 beds) and several special; Leper Asylum (100); lunatic (1000). FACULTIES: Literature, Science, Engineering, and Architecture, Theology, Law, Medicine.

MATRICULATION involves passing an examn. in 5 subjects, including English, Italian, Maths., and, except for Engineering courses, Latin; for Med. students proposing to register in England, 6 subjects, including also Hist.

DEGREES, ETC. B.Litt., D.Litt., B Sc., D.Sc., B.L.Can., B.D., D.D., LL.D., M.D., B.Eng. and A., D.Eng. and A. Diplomas of Notary Public, Legal Procurator, Pharmacist and Apothecary, Dental Surgeon, Practical Midwife.

SCHOLARSHIPS FOR GRADUATES. £120, one each in Theol., Law, Engin., two in Med. (Travelling Scholps.). Three of £50.

THE YEAR 1919–20

NUMBER OF STUDENTS. Full-time, preparing for B.Litt.—6; B.Sc.—6; B.Eng. and Arch.—4; Dipl. in Pharm.—28; in Legal Proc.—6; M.D.—24; LL.D.—20; D.D.—6; occasional—9.

DEGREES CONFERRED. Hon. LL.D.—3; B.Sc.—5; D.D.—8; B.L.Can.—8; LL.D.—22; M.D.—14. Diplomas: Notary Public—3; Pharmacist and Apoth.—14; Dent. Surg.—1.

RETIREMENT. Prof. E. Magro, Rector.

UNIVERSITY OF HONG-KONG

PATRON—H.M. THE KING.

CHANCELLOR—THE GOVERNOR OF HONG-KONG.

VICE-CHANCELLOR AND PRINCIPAL—Sir WILLIAM EDWIN BRUNYATE, K.C.M.G.

CHAIRMAN OF CONSULTING COMMITTEE IN LONDON—Sir CHARLES S. ADDIS.

REGISTRAR—N. B T. MACKINTOSH, M.A.

PROFESSORS, LECTURERS, ETC.

Accounting & Business Practice
Williams, E. A. M., A.S A.A., A.I.S. Lectr.

Anatomy
Digby, K. H., M.B., B.S. Lond., F.R.C.S. Eng. Prof.
Wang, C. C., M.D., B.Ch. Edin. Tutor.

Biology
Barney, R. W., B.A. Dub. Lectr.

Chemistry
Byrne, G. T., M.Sc. Manc. Prof.

Chinese
Au Tai Tin Lectr.
Lai Hsi Chi Lectr.

Education
Forster, L., B.A. Lond. Prof.

Engineering, Civil and Mech.
Smith, C. A. Middleton, M.Sc. Birm., M.I.M.E., A.M.I.E.E. Dean and Taikoo Prof.
Ring, J., B.Sc. Birm. Lectr.
..... Lectr.
Redmond, F. A., B.Sc. Lond. Asst. Prof. of Civil E.
Iu Tak Chung, B.Sc. Demr. in Civ. E.
..... Lectr. in Mech. E.
Wong Tai Cho, B.Sc. Demr. in Mech. E.

Engineering, Electrical
Warren, A. G., B.Sc. Lond., A.M.I.E.E. Prof.
Roffey, M. H., M.Sc. Lectr.
Day, I., A.M I E.E. Demr.

English
..... Prof.
Simpson, R. K. M , M.A. Prof.
Fenton, J., Ph.D. Lectr.
Birch, B. G., B.A. Tutor.

History [Lectr.
Freeborn, J. H. R., B.A. Camb.

Law, Internat., and Jurispr.
..... Prof.

Mathematics
Brown, W., M.A., B.Sc. Glas. Prof.

Medicine and Surgery v. *infra*

Physics
..... Prof.
Florance, D. C. W., M.Sc. Manc.

Physiology [Prof.
Earle, H. G., M A., M.B. Camb.
..... Tutor.

Political Economy
Hinton, W. J., M.A Wales
Dean and Prof.
Danaher, M., M.A., LL.B. N.U.I.
Lectr.

Political Science
Robertson, R., B.A. Lectr.

Medicine

Hygiene and Pub. Health
Pearse, W. W., M.D., D.P.H.
Lectr.

Medical Jurispr. v. Path.

Medicine
McKenny, C. W , M.D Dub. Lectr.
Aubrey, G. E., M.D. Lond. Lectr.

Obstetrics & Gynæcology [Lectr.
Forsyth, C., M.D., F.R.C S. Ed.

Moore, W. B. A., M.R.C.S., L.R.C.P.I. Lectr.
Thomas, G. H., M.D., B.S. Tutor.

Ophthalmology [Teacher
Harston, G. M., M.D., D.O. Ox.

Pathology
Scott, H. H., M.D., M.R.C.P. Lond., D.P.H.
Prof. of Special P. and Med Jurispr.
Wang, C. Y., M.D. Edin., B.Sc. Manc., D.P.H. Prof.

Pharmacology & Therapeutics
Marriott, O., M D. Lond. Lectr.

Surgery
Digby, K H (v. Anat.)
Dean and Prof.
Koch, W. V. M., M.D. Edin. Lectr.

Tropical Medicine [Prof.
Jordan, G. P., M B , C.M. Edin.

GENERAL INFORMATION

The College of Medicine for Chinese, founded in 1887 for the training of Chinese students in Western Medicine, was incorporated under the name of the Hong-Kong College of Medicine in 1907. It had no building of its own, and its teaching was conducted by permission in various hospitals and other institutions. Between 1907 and 1910 an Endowment and Equipment Fund of $1,280,000 was raised for a University to include Engineering and Arts as well as Medicine. The cost of the buildings and preparation of the site—$345,000—was borne by Sir H. N. Mody, the originator of the Fund. Other contributors were the Govt. of China, the Hong-Kong Govt., Swire & Sons, and other firms and Chinese residents of Hong-Kong, Canton, and other places. The Univ. was incorporated in 1911 and formally opened in 1912, when it took over the work of the College of Medicine. The buildings, including class-room accommodation for 500 students, three hostels, laboratories, etc., together with playing-fields, occupy an area of 25 acres. In 1919 were opened the Schools of Physiology, Tropical Medicine, and Pathology presented by 3 Chinese gentlemen. "The root idea of the Univ. is to provide a place for Higher Education where Chinese youths can remain under the influence of their own parents and guardians . . . subject to the strong control which Chinese opinion exerts upon young men, instead of being adrift in a foreign country where a liberty unknown to students in the East is allowed to undergraduates" (*Calendar*, 1919–20).

The Court is composed of life, *ex officio*, and nominated members; the Council of 14-16, including the Chancellor, V.C., Colonial Secy., Univ. Treasr., Deans, Regr., Col. Treasr., Dir. of Educn., 2 Chinese members of Leg. Council, Secy. for Chinese Affairs, Chief Manager in H.K. of H.K. and S.B. Corpn., and a representative of the H.K. Ch. of Commerce. The Senate consists of the V.C., Dir. of Ed., Dean of and 1 other representative elected by each Faculty, Regr., and representatives of the H.K. Coll. of Med.

MUSEUM of Pathology and Trop. Med. LABORATORIES: Anat., Bact., Biol., Chem., Histol., Path., Physics, Physiol., Trop. Med.; Applied Mechanics, Materials, Elec. Tech., Power House, Hydraulics, Steam, Elec. Machinery, Elec. Traction, Engin. and Carpentering workshops. HOSPLS. in the vicinity available for clinics, 400 beds; Govt. Bacteriological Inst. and Mortuary.

FACULTIES. Medicine, Engineering, Arts.

TERMS. Sept.-Dec.; Jan.-March; April-May.

MATRICULATION examn. (framed for use also as a School Leaving examn.) includes (*a*) English, (*b*) Maths., (*c*) Chinese Lang. and Lit., (*d*) Latin *or* a Classical Oriental Lang. other than Chinese, (*e*) Geog., (*f*) a Modern Lang. other than English or Chinese, (*g*) Mandarin, (*h*) Hist., (*i*) Physics, (*j*) Chem., (*k*) Higher Maths., (*l*) Trigonometry, (*m*) Mechanics, (*n*) Drawing. (*a*) and (*b*) are compulsory for all, and (*c*) for all Chinese candidates. It is necessary to pass in 5 subjects, and for the Med. Faculty these must include (*c*), (*d*) or (*f*), and (*e*) or (*h*).

DEGREES. B.A., B.Sc (Eng.), M.A., M B., B.S., M.D , M.S., M.Sc. The standard aimed at is that of the Univ. of London. To qualify for admission to the Bachelor's degree examns. residence for 12 (in Med.—15) terms is necessary.

The examn. for the Master's degree may be taken at the end of 2 yrs. after graduation as Bachelor. For the M.A. or M.Sc. a thesis is required; for the M.S., evidence of special post-graduate experience The examn. for the M.D. may be taken 5 yrs. after graduation, or at the end of 2 yrs. if evidence is produced of special post-graduate experience

Graduates of other Univs. who wish to become candidates for a Master's degree must work under the direction of the Faculty concerned for at least 1 yr.

A Teacher's *Diploma* may be obtained by pursuing a modified B.A. course or by a 2 yrs.' post-graduate course. A 2 yrs.' course in the Arts Faculty leading to a Commercial *Certificate* is provided.

FEES for tuition, $300 p.a.; board and lodging, $240; Univ. Union, $10; books and charges for materials, etc., in Labs., about $60. It is claimed that there is no European Univ. where a foreign student can live so cheaply.

RESIDENCE. With the object of "developing and forming the character of students of all races, nationalities, and creeds," it is provided by the Ordinance of Incorporation that all students must reside in the quarters provided, or in hostels founded by religious bodies and conducted under regns. approved by the Council.

THE YEAR 1919–20. Honorary Degrees conferred on Sir Charles Eliot, K.C.M.G.; Sir Henry May, G.C.M.G.; Hon. Claud Severn, C.M.G. Other Degrees conferred in 1917, 1918, 1919: B.A —1, 5, 0; B.Sc.—16, 15, 8; M.B., B.S.—6, 4, 3; M.D —0, 0, 1.

APPENDICES

I

INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES

Incorporated by Royal Charter in 1880. *Address*—Moorgate Place, London, E.C.2.

The *Preliminary* examn. for persons wishing to become Articled Clerks is held in London, Manchester, Birmingham, and Newcastle-upon-Tyne during the first week of June and Dec. It embraces: Dictation and short English Composition, Arith., Algebra and Geom., Geog., Hist., a foreign language (Latin, Greek, French, German, Italian, or Spanish), and one of the following—Advanced Maths., Physics, Chem., Biol., Geol., Stenography. Exemption is allowed to persons who have passed certain other examns., including those numbered in the list on p. 493, 1, 2, 3, 4, 5, 6, and, provided the standard attained was "pass with credit" in at least 5 subjects, of which one was Maths. (Arith. and Dictation not counting as separate subjects)—7, 8 (*b*), 9, 10, 11, 12, 13; also, if in all the subjects of the Inst.'s prelim. examn., 14. The minimum age for being articled is 16.

The *Intermediate* examn. for Articled Clerks who have served half of their term of service embraces Book-keeping and Accounts (including Partnership and Executorship Accounts), Auditing, and Rights and Duties of Liquidators, Trustees, and Receivers.

The *Final* examn. may not be taken until 2 yrs. have elapsed since passing the Interm., except that graduates articled for 3 yrs. only may take it 1 yr. after passing the Interm. No person may present himself for the Final unless he has served under Articles in England or Wales to a member for 5 yrs. (or, in the case of a graduate of a Univ. of the U.K., for 3 yrs.). It embraces, in addition to the subjects of the Interm., Principles of Law of Bankruptcy and of Law relating to Joint Stock Companies, Principles of Mercantile Law and of Law of Arbitrations and Awards.

The *Fee* for admission to any of the examns. is 2 gs., and for Certif. of Exemption 1 g. 30 days' notice is required.

No person may be admitted as *Associate* (fee 10 gs.) who has not passed the Final examn. The minimum age for admission is 21. Any person who, being an Associate, has for 5 yrs. been continuously in practice as a Public Accountant may be admitted as *Fellow* (fee 10 gs.).

SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS

Incorporated 1885. *Address*—50 Gresham St., Bank, London, E.C.2. *Branches*: Glasgow, Dublin, Montreal, Melbourne, Sydney, Cape Town, Johannesburg. Members are designated "*Incorporated Accountants.*"

Examinations are held ordinarily in May and Nov. in London, Manchester, Leeds, Cardiff, Glasgow, Dublin, and Belfast. 28 days' notice is required. They are also held in Australia and S. Africa.

The *Preliminary* (fee 1½ gs.) embraces English (Hist., Geog., and Grammar), either French or German or Latin, Maths. Exempting examns.: Matricn. of any British, Irish, or Colonial Univ., and those numbered in list on p. 493, 1, 2, 7, 8 (*a*) or (*b*), 9, 10, 11, 12, 13, 18 (Arts or Science), Army Qualifying, or, if it comprise Arith., Maths., Engl., one Lang., and one other subject—9*a* or 10*a* (Hons.), 14, 16 (First-Class certif.), 19, 23.

The *Intermediate* (fee 2 gs.) embraces Book-keeping and Accounts, including Partnership and Executorship and Cost Accts., General Commercial Knowledge and Comml. Law, Powers and Duties of Liquidators, Trustees, etc.

The *Final* (fee 2½ gs.) embraces, in addition to these, Advanced Accounting; Auditing; Merc., Jt. Stock Co. and Bankruptcy Law; Statistical Methods; Economics.

Service under Articles of Clerkship (after passing or obtaining exemption from the Prelim. examn.) is a condition precedent to sitting for the Interm. and Final examns., subject to special regns. in favour of Clerks to Public Accountants of long service (9 yrs. before admission to the Final). The period of service under Articles is ordinarily 5 yrs., for a graduate of a Univ. of the U.K. 3 yrs.; a reduction is allowed to candidates who have served with H.M. Forces. Clerks may sit for the Interm. examn. on the completion of 2 yrs.' service under Articles; for the Final during the 5th year.

Admission to *Associateship* (fee 5 gs.) is open to a Public Acctt., Principal Clerk to a P.A., Acctt. in service of the Govt. of the U.K. or India or any Dominion or Dependency, or of a corporation or public body, who has passed the prescribed examns. Admission to *Fellowship* (fee 10 gs.—for Associates, 5 gs.) is open to a Public Acctt. in the U.K. or Overseas Dominions after continuous practice as such for 7 yrs. (in the case of an Associate, 3 yrs.), provided he has passed the prescribed examns.

Publications: *Yearbook*, 3s.; *Journal*, monthly, 12s. 6d. p.a.; *Examn. Questions*, 1s.

LONDON ASSOCIATION OF ACCOUNTANTS, LTD. (BY GUARANTEE)

Incorporated Jan. 1905. *Address*—Temple Chambers, Temple Avenue, E.C.4. *Branches*: Liverpool, Manchester, Sheffield, Birmingham, Bradford, Hampshire and Sussex, S Wales, Scottish, Belfast, Johannesburg. Members are designated "*Certified Accountants.*"

Examinations are held in June and Dec.: the *Preliminary* (fee 1 g.), the *Intermediate* (fee 1½ gs.), and the Final (fee 2 gs.). The last embraces: Practical Accounting and Business Methods, Partnership Accts.; either Ex'ship Accts. or Cost Accts. and Systems of Costing; Jt. Stock Co. Law; Auditing; Liquidation, Trustees, and Bankruptcy; Income Tax Law and Practice. Special paper for Scottish candidates.

For admission to the Assocn. it is necessary to pass the examns. On passing the Final a person is eligible for admission as Associate member if he complies with the conditions, requiring 5 yrs.' accountancy experience. Entrance fees: for Associates, 2 gs., Fellows, 5 gs. The examns. are open to women.

Publications: *Yearbook*, 5s. (including Examn. Papers), *Journal*, 5s. p.a.

INSTITUTE OF ACTUARIES

Established 1848. Incorporated by Royal Charter, 1884. *Address*—Staple Inn Hall, Holborn, London, W.C.1.

Examinations qualifying for membership are held in April of each year, or at such other times as may be prescribed by the Council. Candidates must give 14 days' notice. Applications for examination outside the U.K. must reach the Hon. Secretaries 2 months prior to the date of examn.

Candidates for *Studentship* must have passed one of the following examns. (v. list on p. 493): Nos. 3, 13*b* (or an examn. similar to 3 or 13*b* at any Univ. in the Empire), 9, 10, 16, any other examn. approved by the Council.

Candidates for *Associateship* must be "Students" and have passed Parts I. and II. of the Syllabus. Candidates for *Fellowship* must be Students or Associates and pass the 4 Parts of the Syllabus. *Examn. Fees*, 1 g. for each Part.

II

NATIONAL AGRICULTURAL EXAMINATION BOARD

Appointed by the Royal Agricultural Society of England (16 Bedford Sq., London, W.C.1.) and the Highland and Agricultural Society of Scotland (3 George IV. Bridge, Edinburgh), and including representatives of the Ministry of Agr. and Fisheries and the Scottish Education Dept.

(i.) An examn. in the SCIENCE AND PRACTICE OF AGRICULTURE is held annually for the National Diploma in Agr. (N.D.A.). Qualifications for admission: a certificate from a recognized Agr. College that his attainments in General Botany and Chemistry, Geology, Physics, and Mechanics justify the candidate's admission; or evidence of (*a*) having passed the 1st B.Sc. or Interm. examn. in Science of a British Univ.; or (*b*) having passed examn. No. 9 or 10 (v. list on p. 493), with evidence of having continued study of science for at least a yr., and a certif. in Elem. Chem. and Physics and Botany of Group H of the Oxford Higher Local or in Group E of the Cambridge Higher Local examn.; or (*c*) Interm. Leaving Certif. of the Scottish Ed. Dept., with evidence of having continued study for at least another year, and the Higher Leaving Certif. in Science, including Chem. and Botany. The subjects of the written papers are Practical Agr.; Surveying and Farm Buildings; Machinery and Implements; Agr. Chem., Botany, Book-keeping, and Zoology; Vet. Sc. They may be taken all at one time or 3 or 4 in one yr. and the remainder the next yr. *Fee* (non-returnable) for entire examn., 6 gs. In 1921 the examn. will be held at Leeds Univ. on April 8 and following days; entries (which should be in prescribed form) close March 1.

(ii.) An examn. in the SCIENCE AND PRACTICE OF DAIRYING is held annually in England and in Scotland for the National Diploma in Dairying (N.D.D.).

Qualifications necessary for admission: (*a*) at least 6 session months' instruction (not necessarily continuous) in practical dairy work at an approved dairy training institution; also (*b*) at least 6 months on an approved dairy farm (not concurrent with period mentioned under (*a*); also (*c*) certificates in prescribed form from a recognized institution or institutions, of attendance on approved courses in Chem., Bacteriology, and Botany, and fitness for admission to the examn. The examn. includes tests of practical skill in Dairying and capacity for imparting instruction to others, as well as tests of the candidate's knowledge.

In 1921 the examns. will be at Reading and Kilmarnock on Sept. 9th and 23rd. Entries (which must be in prescribed form) are receivable at the addresses given above up to Aug. 13th. A candidate may not enter for the examns. both in England and Scotland.

Examn. papers of past years may be had at 6d. a set. A detailed syllabus of subjects of examn. is also obtainable.

III

ROYAL INSTITUTE OF BRITISH ARCHITECTS

Founded 1834. Incorporated by Royal Charter in 1837. *Address*—9 Conduit St., Regent St., London, W.1.

The Institute's Recommendations in regard to preliminary and professional education imply a course of professional training in schools occupying at least 4 yrs., during the last yr. or two of which the student would be working in an architect's office, either as pupil, improver, or assistant—the training being kept under the supervision of the Board or its delegates during the whole term.

Registration as Probationer, R.I.B.A. A candidate must submit a certificate of passing some recognized Public examn., or other evidence of general education, and, unless he has passed an Entrance examn. in Geometrical or Perspective, and also Freehand Drawing at one of the recognized Schools of Arch., evidence in the shape of drawings that he has an elementary knowledge of these subjects. Registration fee, 4 gs.

The *Intermediate* examn. (fee 5 gs.), open to Probationers of at least 19 yrs. of age, tests their progress while engaged as pupil, improver, or assistant in an office, and passing it qualifies for registration as *Student*, R.I.B.A. Exemption from this examn. (but not from the fee) may be granted, provided the work done during the session be submitted to and approved by the Board, or has been previously approved by the external examiners, to Probationers who have attended the full course at the Sch. of Arch., Univ. Coll., London, or the 2 yrs.' course at King's Coll., London, and obtained the First-Class certif., or gained certain qualifications at Liverpool, Manchester, or Sheffield Univ., Leeds Sch. of Art, Glasgow Sch. of Arch., Arch. Assocn. London, Royal Academy Schools, Edinburgh Coll. of Arts, and Heriot-Watt Coll., Robert Gordon Tech. Coll. Aberdeen, Tech. Coll. Cardiff. The Institute desires that Students within reach of these Univs. and Schools should avail themselves of the opportunities thus afforded rather than submit themselves for the examn. without such recognized training.

The *Final* examn. (fee 6 gs.) for the *Associateship*, R.I.B.A., is open to Students of at least 21 yrs. of age. Before admission a candidate must submit designs in answer to at least 4 problems set by the Board, and a thesis in Historical Arch. *or* in Science, as applied to Building, *or* in Design, including Decoration.

A *Special* examn. (fee 10 gs.) for the Associateship is held in June and Dec. for candidates exempted by permission of the Council from the Interm. examn. It is open to architects in practice not less than 25 yrs. of age and Chief Assts. over 30 yrs. of age.

Overseas examns. (fee 10 gs.). Architects of not less than 25 yrs.

of age, working overseas either as architects in practice or as assistants, can be admitted to the Special examn. for Associateship which is held at certain overseas centres. Particulars are obtainable from the Secy., R.I.B.A.; or F. S. Baker, Hon. Secy., R.I.B.A. for Canada, the Traders' Bank Building, Toronto; or Prof. L. Wilkinson, Hon. Sec., R.I.B.A. for Australia, the University, Sydney.

Examns. (fee 3 gs.) qualifying for candidature as *District Surveyor* in London or *Building Surveyor* under local authorities are held in Oct.

Allied Societies exist in 19 towns in the U.K., Montreal, Adelaide, Melbourne, Brisbane, Sydney, Perth, Wellington (N.Z.), Cape Town, Johannesburg, Nairobi.

The Henry Jarvis *Studentship*, £250 for 2 yrs., tenable at the British School at Rome, is open only to British subjects who are Associates or Students, R.I B.A. Information regarding this and other Studentships and prizes is given in a pamphlet, price 6d.

Publications include the *Kalendar*, 3s. 9d., containing, *inter alia*, a historical sketch, regns. for international and other competitions, and information about the allied societies. *Journal*, in 20 numbers annually, 1s. 6d. each number.

IV

AUCTIONEERS' AND ESTATE AGENTS' INSTITUTE OF THE UNITED KINGDOM

Address—34 Russell Sq., London, W.C.1.

Examinations are held in London annually, usually in March, the Preliminary (fee 1 g.) to qualify for the grade of *Student*, the Intermediate (fee 2 gs.), and Final (fee 3 gs.), or the Direct Final (fee 5 gs.), to qualify for the grades of *Associate* and *Fellow*.

The subjects of the *Preliminary* are English Compn., Maths., Geog., Hist. of England, General Knowledge, one foreign language (Elem. Latin, French, Spanish, Italian, or German), and either Shorthand or Elem. Book-keeping. Exempting examns.: Matricn. of a Univ. in the U.K., Prelim. of Law Soc, Surv. Instn., Inst. C.A., Soc. of Inc. Accts. and Audtrs., Special Army Ed. Certif., London Chamber of Com. (Comml.), those in the list on p. 493, numbered 7, 8 (*a*) and (*b*), 9, 10, 11, 12, 13, 13*a*, 14, 16.

The *Intermediate* is open to Students and Articled Clerks and others who have gained practical experience. Minimum age, 19. Exempting examns.: London B.Sc. (Estate Management) Final, and, as regards some of the subjects, the Interm. B.Sc.

The *Final* is open to persons who have passed or been exempted from the Interm.; the Direct Final, to persons not less than 25 yrs. of age who fulfil certain conditions as to practical experience. The subjects of the Final are: Valuation, Law of Vendors and Purchasers, Elements of Law of Receiverships and Mortgage, Arbitrations and Compulsory Purchase, Sanitation, Specifications and Estimates for Repairs, Report Writing, and two out of a list of 6 other subjects. The Direct Final includes also the following from the Interm. list: Book-keeping, Plans and Mensuration, and Law of Landlord and Tenant.

Minimum age for admission to Associate grade, 25; Fellow, 30. Candidates must also fulfil specified conditions as to practical experience.

V

INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND

Founded 1877. Incorporated by Royal Charter, 1885. *Address*—30 Russell Sq., London, W.C.1. *Library* of 3000 vols. *Laboratories*, available for use for examination purposes by other institutions as well as for the I.C.'s own examns. *Appointments Registers* of Fellows, Associates, Registered Students, and Laboratory Assts.

Studentship. Minimum age, 16. Annual subs., 10s. A candidate for admission must have passed an approved Prelim. examn. of Univ. matricn. standard in English, Elem. Maths., an approved foreign language, and either a second lang. or one of the following: Higher Maths., Engl. Hist., Geog., Bot., Chem., Geol., Mechanics, Physics, Zool., and must be undergoing a course of preparation and training for the practice of Chemistry in one of the teaching institutions recognized by the Council, or as a pupil of a Fellow of the Institute in a lab. or works approved by the Council. The approved Prelim. examns. include those in list on p. 493, numbered 7, 8 (*a*) and (*b*), 9, 10, 11, 12, 13, 13*a*, 14, 16, 18, 22; in Canada—Matricn. of Dal., McG., Manit., New Bruns. Univs., and Departmental Arts Matricn. of Queen's and of Univs. and Colls. of Ontario; in Australia—Senior Public examns. of Adel., Syd., and Tasm., First Year in Arts of Adel. and Syd., Matricn. of Melb. and Syd.; in N.Z.—Prelim. of N.Z. and Otago; in S. Africa—Joint Board's Matricn.; in India—Interm. in Arts of Allahabad, and Panj., Matricn. of Bom., First Arts of Calc. and Mad.; in Ceylon — Med. Coll. Prelim.; in Malta — Matricn.; in foreign European countries—examns. entitling to proceed to the French B. ès L. and B. ès Sc., and other corresponding Entrance examns. approved by the Council. The candidate should have passed in the compulsory subjects at one examn., but this condition may be relaxed if he has passed them in two.

The institutions recognized for the training of candidates for the Examns. of the I.C. are of those in connexion with the Univ. of London shown on pp. 80, 81—(U.), (K.), (Im.), (EL.), (2), (3), (5), (8), (10) (evening), (11); in the Univ. of Durham, Armstrong Coll.; Constituent Colls., except Swansea, of Wales and of N.U.I.; all other Univs. in the U.K.; Univ. Colls. Nottingham, Reading, and Southampton; Birmingham and Blackburn Munic. Tech. Schools, Bradford City Tech. Coll., Huddersfield Tech. Coll., Salford Royal Tech. Inst., R. Tech. Coll. Glasgow, Heriot-Watt Coll., R.C.Sc.I.; Overseas Univs.—McGill, Toronto, Adel., Melb., Syd., W. Aust.

The compulsory subjects of training are Chem., Physics, and Maths., the course in Chem. extending over 4 yrs. Evening class training is recognized if the candidate is engaged in the practice of Chem. during

the day and attends a systematic course previously approved by the Council extending over 5 yrs., and is recommended by his teachers. Evidence of having passed the class or other examns. is required.

The A.I.C. examn., fee 5 gs., occupies at least 5 days, including 4 days of practical Chemistry, and is open to students who have completed the prescribed training or have obtained a degree including the necessary subjects, and worked for a further year in a recognized Univ. or Coll., or for 2 yrs. with a Fellow in a lab. or works approved by the Council, or have been otherwise trained to the satisfaction of the Council and been engaged in the study and practice of Chem. for 10 yrs. The A.I.C. may be granted (without examn) to graduates with 1st or 2nd Class Hons. in Chem., or holders of diplomas recognized as equivalent, who have completed a 4 yrs.' course in the requisite subjects or a 3 yrs.' course supplemented by approved experience in a lab. or works approved by the Council. The examns. recognized for this purpose include, in addition to examns. of all Univs. of the U.K. : Final B.Sc. with 1st or 2nd Class Hons. in Chem. of McGill, Toronto, Adelaide, Melb., Syd., and the Final B.A. of Toronto with 1st or 2nd Class Hons. in the graduating Dept. of Chem. and Mineralogy. Applications from candidates having diplomas of a specialized character will be decided on their merits. Applications from persons who have practised Pure and Applied Chem. for 7 yrs. will, up to Dec. 31, 1921, be considered in exceptional cases for admission without strict compliance with the above conditions, on proof of equivalent general and scientific training.

The F.I.C. examn , fee 10 gs. (for Associates, 5 gs.), occupies at least 5 days, and 1s in any one of the following branches : Inorganic with Sections, Mineral Products, Metallurgy, Manufactured Products ; Physical ; Organic ; Agricultural ; Foods and Drugs and Water ; Bio-Chemistry ; Chem. Engineering. It is open to Associates of 3 yrs.' standing, and in special cases to other candidates who have been systematically trained and had considerable experience. The F.I.C. may be granted without examn., or with a modified examn., to Associates of 3 yrs.' standing who have carried out original research or devised processes or inventions or given other sufficient evidence of knowledge and ability.

Publications. Register of Members ; Regns. for Admission ; Examn. Papers, 1s. a set ; *List of Official Chemical Appointments ; Journal and Prodgs.*, 6 parts annually, 2s. each ; *History of Inst.*, 15s. ; *Lectures for Advanced Students*, 5s.

CHEMICAL SOCIETY

Address—Burlington House, London, W.1. Professional qualification not required. Entrance by ballot ; fee £3, annual subs. £3. Library, 25,000 vols. Lectures. Monthly Journal. Annual vol. of Reports by eminent men on recent progress. Research Fund from which grants are made (in 1920 they amounted to £558) for purchase of special materials for research.

VI

INSTITUTION OF CIVIL ENGINEERS

Established 1818. Incorporated by Royal Charter, 1828. *Address* —Great George St., Westminster, S.W.1. *Telegrams*—Institution, London.

Examinations, (i) Preliminary and (ii.) Associate Membership, are held annually in April and Oct. in London. Entries receivable up to Feb. 28 and Aug. 31. The April Prelim. and Oct. A.M may also be held, the former in Manchester, Glasgow, and Newcastle-upon-Tyne, the latter in the King's Dominions overseas. (i) may also under certain conditions be held overseas.

For admission to (i.) nomination by a corporate member is necessary, and conditions relating to practical training have to be fulfilled. It includes English, Maths., and 2 (which must not both be languages) of the following subjects : Elem. Chem., Elem. Mechanics, Elem. Physics, Latin, Greek, French, German, Ital., Span , Port., Dutch, Russian.

Admission to (ii.) is open to (*a*) *Students* of the Instn. (v. *infra*) of at least 1 yr.'s standing between ages 21 and 26, and (*b*) persons of at least 25 yrs. of age who have passed or are exempt from (i.) and are in other respects qualified (in respect of training, experience, etc) for election into the Instn. It includes papers in (A) Mechanics, Strength and Elasticity of Materials, *either* Theory of Structures *or* Theory of Elec. and Magn. ; (B) 2 out of 9 other subjects ; and (C) Engin. Drawings, Specifications, and Quantities, and, unless candidate has previously qualified therein, a modern Foreign Lang.

For admission as *Student* age must be between 18 and 25, and candidate must be recommended by a corporate member under whom he is or has been in course of preparation and training in accordance with the Instn.'s prescriptions. A candidate for election as *Associate* Member must satisfy the Council as to his training and experience, and must, unless exempted, pass (i.) and (ii.). Exemption from (i.) is granted to graduates of any Univ. of the Empire, and Whitworth Scholars and, subject to certain provisoes, persons who have passed any of examns. (v. p. 493) Nos. 4 (Engin.), 9, 10, 13*b*, 18, 20 (Engin.), 22, or Matricn. examn. of any other Univ. of U.K., or 14, 15*a*, 15*b*, 15*c*, 17, or 19, or Matricn. (Engin.) of McGill or Sydney, or combined Prelim. and Entrance in Engin. of N.Z., S. Africa, or Cape Town, or Senior Public examn. of Adel., Melb., or Tasmania. Exemption from (ii.) is granted for the following degrees if taken after 3 yrs.' study in the several Univs. in accordance with their regns. : Oxford B.A. with Hons. in Engin. Sc., Final Hons. Sch., Camb. B.A. Hons. Mech. Sc. Trip., Edin., Glas., or St. And. B.Sc. in Engin., Dub. B.A.I. with Hons., B.Sc. or B.Eng.

with Hons., Birm., Leeds, Liv., Lond., McG., Manc., Sheff.; also subject to further provisos certain other degrees of Adel., Belf., Birm., Bris., Cape Town, Dub., Durh., N.U.I., Leeds, Liv., Lond., McG., Manc., Melb., N.Z., Queensland, Sheff, S. Africa, Syd., Wales.

Publications. Report on Methods of Educn. and Training of all Classes of Engrs., 1906, Wm. Clowes, 94 Jermyn St., S.W.1, post-free 7d.; *Report of Confce. on Educn. and Training*, June 1911; Reports on Technical Subjects.

INSTITUTION OF ELECTRICAL ENGINEERS

Founded 1871. *Address*—Savoy Place, Victoria Embankment, London, W.C.2. *Telegrams*—Voltampere. *'Phone*—London.

Examinations are held in London about the end of April and the end of Oct. of candidates for *Associate Membership*. Applications should reach the Secy. not later than March 1 and Sept. 1 respectively. Examns. may also be held in other centres at the discretion of the Council. Part I. of the examn. includes English essay or translation into English from French, German, Italian, or Spanish; Applied Mechanics; and either General Elem. Physics or Chem. Part II. consists of papers on technical subjects only.

A candidate for the Associate Membership is required, unless exempted, to pass the examn. or to present a thesis, paper, or other contribution to Electrical knowledge. He must also be at least 25 yrs. of age or have been a student of the Institution for at least 3 yrs., must be engaged in one of the branches of El. Eng., and satisfy the Council as to his experience, etc

Exemption from Part I. of the examn. is granted to candidates who have obtained a Science degree from any Univ. in the U K or Colonies, and exemption from the whole of the examn. to persons who have obtained: any Engin Degree of any Univ. in the U K. or the Colonies; Whitworth Scholarship; Diploma in Engin. of R C.Sc.I or Hons. Sch. of E.E. of Univ. of Liverpool; Diploma or Certif. in E.E. of the City and Guilds (Engin.) Coll, or King's Coll., London, Final or Hons. Grade Certif. in E.E. of City and Guilds of Lond. Institute; Diploma in E.E. of Univ. Coll. London, Faraday House, Heriot-Watt Coll. Edin., Roy. Tech. Coll. Glas., Armstrong Coll., S African Coll.; Day Course Certif. in E.E of Finsbury Tech Coll.; 4 yrs. Engin. Course Certif. of Northampton Polyt. Institute, London; Certif. of Technology in E.E. of Manc. Municipal Sch. of Tech.

The Council will consider on its merits any other Engin. degree, diploma, or certificate of equivalent standing to the above from any Univ. or College in the U.K. or abroad.

INSTITUTION OF MECHANICAL ENGINEERS

Established 1847. *Address*—Storey's Gate, St. James's Park, London, S.W.1. *Telegrams*—Mech. Parl., London.

Examinations are held in London in April and Oct. : (i.) *Graduateship* (minimum age, 17), including papers in English, Elem. Maths., and Scientific Knowledge (Mechanics and either Physics or Chem.). (ii.) *Associate Membership*, open to graduates of the Instn. (minimum age, 20), *or* candidates for Graduateship over 20 and under 26 who intend to become Assoc. Members, and for whose regular training as M.E.'s satisfactory arrangements have been made, *or* other candidates (minimum age, 27) duly proposed for election and permitted to take the examn. The examn. includes a short essay paper, Applied Maths., Physics and Chem., Technical Knowledge, and a Modern Lang.

A candidate for election as *Graduate* must, unless exempted (*see below*), have passed examn. (i.) or (ii.), and have received or be receiving regular training as a Mechanical Engineer, and have received or intend to obtain sufficient practical and scientific training to fit him for employment in a responsible position.

A candidate for election as *Associate Member* must be a practising Engineer at least 27 yrs. of age. The passing of the A.M. or equivalent examn. is an indispensable qualification up to the age of 33, and he must, in addition, have been regularly trained as a M.E. and have had sufficient practical experience in the direction or design of Engineering work.

Examns. exempting from (i.) : Graduateship of any Univ. in the Empire ; any of those on p. 493 numbered 3*, 4 (Engin.), 5, 6 (provided either Mechanics or Chem. is covered by the Certif.), 7 (provided it has been taken by an Internal student of Leeds, Liv., Manc., or Sheff., and a Pass with Credit obtained in Engl. Comp. and Lit., Maths., and 2 of Mechanics, Physics, Chem.), 8 (*a*) (provided candidate passed in Physics either as a Group or as a Subsidiary subject—not in combination with Chem.), 9 or 10†, 11 (if covering requisite subjects of Graduateship examn., v. *supra*), 13‡, 13 (*a*)*, 14†, 15 (*a*) (Engin.), 15 (*b*) (Engin.), 15 (*c*), 17 (provided a foreign language was taken), 18, 19†, 20 (Engin.), 21 (if including English, Hist., Geog., Maths., and either Nat Philos. or Physics), 22 ; Matricn. (Engin) of Birm., Liverpool, or Hong-Kong ; S. Africa Matricn. ; Instn. of C.E. Studentship ; Naval Cadets passing-out ; Whitworth Scholps. and Exhibns.

Examns. exempting from (ii.) : Engineering Degrees of any Univ. in Gt. Britain (including War B.Sc. (Eng.) Lond.), Ireland, British Dominions, or India, except such as may be specifically excluded ; Camb. B.A. Hons. in Eng. and, if Spl. examns. in Eng. Sc. and in either Chem. or Physics were passed, the ordinary B.A. ; Manc.

* If the certif. covers Mechanics or Chem. or Physics or Drawing.

† If the certif. covers a physical science subject.

‡ If the certif. covers Elem. and Adv. Maths., Hist., and Geog., and either Mechanics or Chem. or Elem. Physics.

Certif. in Technology, Mech. or El. Eng. ; Eng. Degree of a Foreign Univ. if recognized by the Council ; Diploma in Eng. of Univ., King's, or City and Guilds (Engin.) Coll., London ; Dipl. or Higher Certif. (3 yrs. course) of City and Guilds of Lond. Inst. if taken by matricd. student ; Final Dipl. in Mech. or El.E. of R.T.C., Glas., if approved Matricn. examn. passed before beginning course ; R N. examn. qualifying as Lieut. (E.) ; R.N. College Prof. Certif. for Constructors ; Inst. C.E., Assoc. M. ; Whitworth Scholps. and Exhibns.

INSTITUTION OF MINING ENGINEERS

Established 1889. Incorporated by Royal Charter, 1915. *Address* —39 Victoria Street, Westminster, London, S.W.1. *Telegrams*—" Instimini Phone London."

The Institn.'s objects and purposes are " the advancement of coal and iron-ore mining and allied industries, and the promotion of the acquisition of the knowledge necessary for the control and direction of mining operations in relation to stratified deposits." It is a federation of the Manchester Geol. and Mining Soc. ; the Midland Counties Instn. of E. ; the Midland Instn. of Mining, Civil, and Mech. E. ; the Mining Inst. of Scotland ; the North of England Inst. of Mining and Mech. E. ; the North Staffs. Inst. Min. E., and the South Staffs. and Warwickshire Inst. Min. E. There is no separate membership of the Institution apart from membership of one of the Federated Insts.

Conditions of admission to membership since Jan. 12, 1916, include : (*a*) regular education and training as a Min. E., and 5 yrs. work in a responsible position in practical Mining ; or (*b*) First-Class Certif. of Competency under Coal Mines Act, and tenure of post as Manager, Asst. Manager, Under-Manager, or Chief Surveyor ; or (*c*) position or attainments rendering his membership desirable in the opinion of the Council. There are also Associate Members, Hon. Members, Associates, and Students.

Publications. Transactions (in which are included Procdgs. of Federated Instns. as well as those of the Instn. itself), 60 vols. Price to non-members, 54s. each for current volumes ; back volumes at varying rates.

VII

THE BAR IN ENGLAND AND WALES

THE right to practise as a Barrister in the Law Courts of England and Wales is restricted to those who have been called to the Bar by one of the Inns of Court—Lincoln's Inn, Middle Temple, Inner Temple, and Gray's Inn. The consolidated Regulations of these Societies (obtainable from the *Council of Legal Education*, 15 Old Square, Lincoln's Inn, London, W.C.2) provide, *inter alia*, as follows :

Admission of Students. The conditions include : (i.) having passed the Matriculation examination of one of the Univs. of the United Kingdom, or one of certain other examinations approved by the Council of Legal Education ; (ii.) satisfactory evidence of good character ; (iii.) declaration that the candidate will not " directly or indirectly apply for or take out any certificate to practise, directly or indirectly, as a Pleader or Conveyancer or Draftsman in Equity, without the special permission of the Masters of the Bench," and is not and does not " directly or indirectly act in the capacity of a Solicitor, Attorney-at-Law . . . Professional Accountant, Actuary, Land-Agent, Surveyor . . ." or " in any capacity similar to any of those . . . otherwise than as . . ." The Schedule of approved Prelim. examns. includes those numbered in the list on p. 493, as 1, 2 (Pts. I. and II.), 3, 5, 6, 8 (*a*) (*b*), 9 or 10 (subject to provisos), 13*a*, 18 (according to standard applicable to students whose native language is English), 20, 21. The Council may add others, and the Masters of the Bench of the Inn of Court concerned may, in special cases, relax or dispense with this requirement.

Keeping Terms. This is done by eating dinners 6 days in each of 12 terms (members of Univs. of the U.K. 3 days). There are 4 terms in each year.

Education and Examination. Systematic instruction is provided under the supervision and direction of the Council of Legal Education in Roman, International, Constitutional, and English Law, Jurisprudence, Legal History, and Equity. Reading in the chambers of a Barrister or Pleader for the purpose of studying the practice of Law is recommended, but not compulsory. Four examns. for Call to the Bar are held each year. Candidates must satisfy the examiners in each of the sections : (1) Roman Law, (2) Constitutional Law (English and Colonial) and Legal History, (3) Criminal Law, (4) Real Property and Conveyancing *or* Hindu and Mohammedan Law *or* Roman-Dutch Law, (5) Common Law, (6) Equity, (7) Law of Evidence and Civil Procedure, (8) General Paper on 5, 6, and 7. A student who has passed an examination in Roman Law, forming part of a qualifying examination for a Univ. degree, may be excused the examination in Section 1. Sections 1 to 4 (constituting Part I.) may be taken separately (fee, £3 3*s*. each) ;

5 to 8 (the Final examination) must be taken together (fee 1 g.) after having passed 1 to 4 and, ordinarily, after having kept at least 6 terms.

The successful students are classified and the names of those in Classes I. and II. of the Final Examination Pass List are arranged in order of merit. A Certificate of Honour is granted to those in Class I. at the Final examination. Prizes of £50 each may be awarded for the best students (not over 25 yrs. of age) in Sections (2) and (3), and a Studentship of 100 gs. p a. tenable for 3 yrs. to the best student (not over 25 yrs. of age) at the Final examination (during the years 1921 and 1922 the age-limit will be 30 instead of 25). The Inn to which a student who has obtained a Studentship or Certificate of Honour belongs may, if desired, dispense with any Terms, not exceeding 2, that may remain to be kept by him.

Calls to the Bar. Minimum age, 21. In special circumstances the Masters of the Bench may dispense with the keeping of not more than 2 of the 12 terms ordinarily required to be kept by a student before he is called. For war service an even more liberal dispensation may be granted, and students having certain qualifications may be excused examinations. Special concessions in regard to the keeping of terms or examinations, etc , are allowed to Irish Barristers, members of the Bar of New South Wales, Ceylon, the Cape Province of South Africa, New Zealand, Vakils of High Courts in India, and to persons who, prior to admission as students, have practised as Solicitors for 5 yrs. (including interruptions caused by war service).

Fees. On admission : application, 1 g. ; stamp duty, £25 ; lecture fee, 5 gs. ; admission fees, £9 (Gray's Inn and Lincoln's Inn), £15 (Middle Temple), or £21 (Inner Temple). On Call : stamp duty, £50 ; composition for annual dues, £12 ; call fees, £28 (Gray's), £32 (Lincoln's), £38 (Middle), or £50 (Inner).

SOLICITORS IN ENGLAND AND WALES

Examinations are held by the LAW SOCIETY, Chancery Lane, London, W.C.2. All persons, except some Colonial Solicitors, are subject to Final examination at conclusion of service under Articles before they can be admitted as Solicitors. Subjects of Foreign States cannot be admitted. English Barristers of 5 yrs. standing are not required to enter into Articles, but may be admitted after passing the Final examn. Before entering into Articles of Clerkship (under the Solrs. Act, 1877) with a view to admission as Solicitors it is necessary, except for persons exempted, to pass a *Preliminary examn.* (fee, £4) held in London and several provincial towns in Feb., July, and Oct., in English, Elem. Maths., Geog. of Europe, and Hist. of England, Latin, and one or (if Algebra and Elem. Geom. are not taken) two of the following—Latin translation, Greek, French, German, Spanish, Italian. Exemption is allowed to graduates in Arts or Laws of any Univ. of the U.K., except Birm. and Brist. ; to Utter Barristers in England ; and to

persons who have passed the examns. numbered in list on p. 493 as 1*a*, 2, 3, 4*a*, 8 (*a*), 9, 9*a*, 10, 10*a*, 16 (First-Class certif.); also *provided* the candidate passed in Latin, and all the prescribed subjects were taken at one time, and the regns, character, and standard of the examn. remains as in July 1920, the following: 1, 1*b*, 5, 6, 7 (Certif. A.), 8 (*b*), 13, 14, 24.

Service under Articles (stamp duty, £80) is normally for 5 yrs This may be reduced: (1) to 3 yrs. for graduates in Arts or Laws of any Univ. of the U.K., except Birm., Belf., or N.U.I., or for members of the Faculty of Advocates, Writers to the Signet and Solrs. in the Supreme Courts of Scotland, or Procurators before any of the Sheriff Courts of Scotland; (2) to 4 yrs. for persons who have (*a*) passed examns. Nos. (v. list on p. 493) 1, 1*a*, 1*b*, 2, 3 (1st Division), 4*a*, 6 (1st Division), 13 (with Hons.), 24, if the conditions of the last-mentioned proviso were fulfilled, or (*b*) before entering into Articles attended for 1 yr. the approved curriculum of study at the Law Society and passed a satisfactory examn. therein, or (*c*) before entering into Articles passed examn. No. 6 (Latin being taken), and subsequently attended, to the satisfaction of the Univ., the curriculum for the Interm. LL.B. of Leeds, Liverpool, or Sheffield, and passed Interm LL.B examn.

An *Intermediate* examn. (fee, £6), which may be taken after completing 12 months' service, is held in March, June, and Oct. Exemption from the Legal portion (but not from the Trust Accounts and Bookkeeping portion) is given to those who (i.) before or after entering into Articles have passed the examn for the B.C.L. or LL.B at any of the Univs. of England (except Bristol) and Wales or at the Univ. of Dublin; or (ii.) before entering into Articles have taken Honours in the Final Honour School of Jurispr. at Oxford or in the Law Tripos at Cambridge. Exemption from the whole of this examn. in consideration of circumstances connected with the war is obtainable under certain conditions (v. sec. 2 of Solrs. Act, 1918).

The *Finale* xamn. (fee, 10 gs.) is held in March, June, and Oct. Prints of the Questions set at this and at the Interm. are obtainable from the Law Society.

VIII

MEDICAL AND DENTAL STUDIES AND QUALIFICATIONS

Address of the Registrar, General Medical Council—44 Hallam St., Portland Place, London, W.1. *Telegrams*—Genmedicum, Eusroad, London. *Registrars of Branch Councils*—20 Queen St., Edinburgh; 35 Dawson St., Dublin.

A. MEDICAL QUALIFICATIONS

No person is recognized by law as a duly qualified Medical Practitioner in Great Britain or Ireland whose qualification is not *registered* in the books of the *General Medical Council*. The following lists show the registrable qualifications obtainable (*a*) in Great Britain and Ireland, (*b*) in British Possessions overseas, (*c*) in foreign countries. The document presented in evidence of any of these must show that the possessor has passed a Qualifying examn. in Medicine, Surgery, and Midwifery. For registration in the Colonial or Foreign list it is essential that the qualification be first registered in the Province, State, etc., in which it was obtained.

(*a*)

Royal College of Physicians, London—F., M., L., R.C.P. Lond.
Royal College of Surgeons of England—F., M., L.M., R.C.S. Engl.
Royal College of Physicians of Edinburgh—F., M., L., R.C.P. Edin.
Royal College of Surgeons of Edinburgh—F., L., R.C.S. Edin.
Royal Faculty of Physicians and Surgeons of Glasgow—F., L., R.F.P.S. Glas.
Royal College of Physicians of Ireland—F., M., L., L.M., R.C.P. Irel.
Royal College of Surgeons in Ireland—F., L., L.M., R.C.S. Irel.
Apothecaries' Soc. of London—L.M.S.S.A. Lond.
Apothecaries' Hall, Dublin—L.A.H. Dub.
Each Univ. in the U.K.—M.D. (Ox., D.M.), M.B. (Ox., B.M.), Ch.B. (or B.Ch. or B S.), Ch.M. (or M.Ch. or M.S. or C.M.); Dub.: L.Med., L.S.
Registrable Diplomas or Certificates for proficiency in Sanitary Science, Public Health, or State Medicine which may be added to qualifications already registered but do not admit primarily to the Register:
D.P.H. (R.C.P.S. Eng., R.C.P.S. Edin., and R.F.P.S. Glas., R.C.P.S. Irel., and each of the Univs. of Great Britain and Ireland, except London).
D.S.Sc. (Camb., Vict.).
L.S.Sc. Durh.
B.Hy., D.Hy. Durh.
Cert. P.H. Lond.
M.D. (S.M.) Lond.

M.H. L'pool.
B.Sc. (P.H.), D.Sc. (P.H.) (Edin., Glas.).
D.S.M. Dub.

Under the Public Health Acts no appointment as Med. Officer of Health may be made in any county, district, or combination of districts of a population of 50,000 or upwards unless he is registered as the holder of a Diploma in San. Sc.

(*b*)

Australia. M.B, M.D. Syd., Adel., or Melb.; Ch.M. Syd.; B.S., M.S. Adel.; B.S. Melb.
Canada. M.D. Dal., Laval, McG., Manit., Mont.; C.M. Dal., McG.
L.M.S. New Brunswick Provincial Council of P. & S, *or* Nova Scotia Provl. Med. Board, *or* Prince Edward Island Med. Council.
M.C.P. & S. Alta., *or* Manit., *or* Ont., *or* Sask.
As qualifications which may be added to M.C.P. & S. Ont : M.B., M.D., C.M. of Queen's, M.B., M.D. Tor., or M.D. Western.
Ceylon. L.M.S. Ceylon Med. Coll.
Hong-Kong. M.B., B.S. Hong-Kong.
India. M.B., B.S. All.
L.M.S., M B., B.S., M D., M.S. Bom.
L.M.S., M.B., M.D., M.S., M.O. Calc.
M.B., B.S., M.D., M.S Mad.
L.M.S., M.B., M.D., M.S. Panj.
Malta. M.D. Malta.
Newfoundland. L.M.S. N.F. Med. Board.
New Zealand. M.B., Ch.B., M.D. N.Z.
Straits Settlements. L.M.S Singapore Med. Sch.

(*c*)

Degrees of (i.) Doctor of Med. and Surg. of all the Royal Italian Univs.; (ii.) Bachelor of Med. and Doctor of Med. of the Imperial Univs. of Japan; and Bachelor of Med. of any Govt. or Prefectural Special Med. Coll. or of a private special Med. Coll. designated by a Minister of Educn. of the Empire of Japan.

B. REGISTRATION OF MEDICAL AND DENTAL STUDENTS

The Regulations (Con table & Co., 10 Orange St., Leicester Sq., London, W.C.2, post-free, 1s. 2d.) prescribe Registration of Medical Students within 15 days of the commencement of their professional studies. For this purpose they should apply in the prescribed form, obtainable from any of the Registrars (v. *supra*), submitting evidence of having (*a*) attained the age of 16; (*b*) passed a Prelim. examn. recognized by the Council; and (*c*) commenced Med. study at a Univ. or School of Med., or at a Teaching Institn. *recognized* by one of the Licensing Bodies and *approved* by the Council.

On and after Jan. 1, 1923, the minimum age for registration will be 17, the minimum standard of general educn. will be that of Univ. Matriculation or Entrance examn., and the applicant will also be required to have passed an examn. in Elem. Physics and Elem. Chem. conducted or recognized by one of the Licensing Bodies; also a student who has diligently attended an approved course in Elem. Biology at a Secondary School or other teaching institn. recognized by a Licensing Body will be admitted to the Professional examn. in this subject immediately after registration as a student. In the meanwhile the Prelim. examns. recognized include, subject to specified conditions, the Schools' examns. recognized by the Board of Educn. (v. p. 3), and numerous others in the U.K.; also the following, if completed at not more than 2 periods of examn., provided the pass-certifs. include (*a*) English, (*b*) Maths., and (*c*) Latin or Greek or Hebrew and at least 1 of Lat., Gk., Heb., Arab., Pers., or any approved modern language, and provided the examn. include (*a*) Grammar, Compn., Lit., questions in Hist. and Geog. arising out of the subject-matter of the examn., (*b*) Arith., Algebra (including easy quadratics), Geom. (including subject matter of Euclid i., ii., iii., and simple deductions), (*c*) Grammar, Translations into English from unprescribed books, Translations from English (natives of Oriental countries, whose vernacular is not English, may offer a Classical Oriental Language in lieu of Latin):

Australia, Melbourne matricn.; Sydney matricn. for Med., or, if certif. includes requisite subjects, First Year in Arts or Senior Public; Adelaide Senior Public; Tasmania Senior Public, with Special Certif. of pass in Prelim. examn. in Med.; W. Aust. matricn. in Arts and Science, or School-Leaving certif. (so far as it qualifies for matricn. in Arts and Science).

Canada, McGill, Manitoba, and Dalhousie Univs., matricn.; Univs. and Colleges of Ontario, Junior matricn.

Ceylon, Medical College prelim. examn.

Egyptian, Govt. Secondary Educn. certif.

Hong-Kong, matricn. in Medicine.

India. Entitling (*a*) to undertake as part of the recognized medical curriculum the study of Chem., Physics, and Biol, within any of the affiliated Colleges; (*b*) to admission to Students' Register in the U.K.: (*a*)—Matricn. of Allahabad, Bom., Calc., Madras, Panjab, Patna; School-Leaving certif. of U.P. Educn. Dept.; (*b*)—Interm. in Arts of Allahabad, First Arts and Prelim. Scientific of Bom., Prelim. Sc. or Interm. of Calc., Interm. of Madras, Interm. in Arts or Sc. of Panjab or Patna, following either matricn. of same Univ. or School-Leaving certif of the U.P. Ed. Dept.

Malta matricn.

New Zealand, Prelim. for Med. students; Otago Prelim. Med.

S. African Univs., Joint matricn. for Med. students (Greek may be taken as an alternative to History, and Dutch may be substituted for English as the principal language, provided English is taken as the second).

Abiturienten-Examen of Swiss and German Gymnasia and Real-

gymnasia; examns. entitling to the French B. ès L. and B. ès Sc. and other corresponding Entrance examns. to the Univs. in Europe.

N.B.—The Indian and Colonial Examining Bodies are supplied with a form of certificate for showing that the examn. has been conducted by or under the authority of the Body granting it, and includes all the required subjects, etc. All applicants for registration must produce this certif. duly completed.

Institutions in which Medical Study may be *commenced* include: (*a*) in the U.K., all the Univs. and their Colleges and numerous Secondary Schools and other Institns.; (*b*) South African Univs.

DENTAL STUDENTS. I. Registration is carried on at the Council Office in London in the same manner as that of Med. students, and is subject to the same regns. as regards age and Prelim. examns., but professional study may commence by pupilage with a Registered Dental Practitioner.

II. Candidates for a Diploma in Dental Surgery should produce certificates of having been engaged during 4 yrs. in Professional Studies, and of having received 2 yrs. instruction in Mechanical Dentistry from a Registered Practitioner.

III. One year's *bona-fide* apprenticeship with a registered Dental Practitioner, after being registered as a Dental student, may be counted as 1 of the 4 yrs. of Professional Study.

IV. The necessary 2 yrs. of instruction in Mech. Dentistry, or any part of them, may be taken by the Dental student either before or after his registration as a student. When he can show evidence of regular pupilage in Mech. Dentistry to a registered practitioner, prior to passing a Prelim. examn, he may be allowed to antedate for a period not exceeding 1 yr. prior to the passing of the Prelim. examn.

Schools at which Dental Study may be commenced: Birmingham D. Hospl; Bristol, Royal Infirmary, Genl. Hospl.; Dublin, D. Hospl. of Ireland; Dundee D. Hospl; Edinburgh D. Hospl.; Glasgow D. Hospl.; Leeds, D. Hospl., Public Dispensary; Liverpool D. Hospl.; London, Guy's Hospl. D. School, London Hospl. D. School, National D. Hospl., Royal D. Hospl.; Manchester D. Hospl.; Newcastle-upon-Tyne D. Hospl.; Sheffield Royal Hospl.; Roy. Coll. of Surg. in Ireland; D. Department of any Univ. of the U.K.

A Bill (No. 276) introduced into Parliament in 1920 will, if it becomes law, prevent the practice of dentistry by persons not registered in the dentists' register under the Dentists' Act, 1878.

C. RECIPROCAL RECOGNITION

The States, Presidencies, and Provinces in which the registrable qualifications specified under A (*b*), (*c*), are granted all allow practitioners with qualifications registered in the U.K. to register without further examn. There are also other Colonies, *e.g.* the Provinces of S. Africa, which recognize British qualifications, but in which at present no qualifications are granted.

[A Report (5th edition pubd. in Feb. 1921) as to the conditions under which Med. and Dent. practitioners registered or legally qualified in their own country may practise abroad is obtainable from the Council Office, price 2s. 6d. (post free U.K. 2s. 10d., elsewhere in the Empire 3s. 1d., outside 3s. 4d.). It contains, among other matters, the designations and addresses of the persons to whom application should be made for forms and further information.]

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND

Address of the Secy., Conjoint Examining Board in England, 8-11 Queen Sq., Bloomsbury, London, W C 1. Applications for admission to the Board's examns. should reach the Secy. at least 14 days (in the case of the L.D.S Professional examns , 21 days) beforehand. Agency for the sale of Books of Questions set in past years (9d. each)—Taylor & Francis, Red Lion Court, Fleet St , London, E.C.4.

Examinations for the Diplomas of LICENCE OF THE R C P. of London and MEMBER OF THE R.C.S. of England are held ordinarily in Jan., April, July, and Sept. or Oct. Candidates must have passed a Prelim. examn. in general education recognized by the Board, and must, before admission to the examns , produce certificates of having pursued the prescribed courses of study and practice. The *First* Professional examn. (fee, 10 gs.) comprises : Pt. I., Chem.; Pt. II., Physics ; and Pt. III., Elem. Biol. Candidates may take this examn. immediately after passing the Prelim., provided they have the prescribed certificates of instruction and laboratory work in institutions recognized by the Board, in Chem. (180 hours), Physics (120), and Biol (120). Pt. III. may be taken separately if desired. The *Second* Prof. examn. (fee, 10 gs.) : Pt. I., Anat. and Physiol. (studied after the candidate has passed in 2 of the subjects of the First examn.), and Pt. II., Mat. Med. and Pharmacology. The Parts may be taken separately. The *Final* (fee, 20 gs.) : Pt. I., Med., including Med. Anat., Path., Therap., Forensic M., Pub. Health ; Pt. II., Surg., including Path., Surg. Anat., use of Surg. appliances ; Pt. III. Midw. and Dis. of Women. 2 yrs. must have elapsed since passing the Second examn. The parts may be taken separately.

Exemptions. (*a*) Candidates who shall have passed an examn. for a degree in Medicine in any of the subjects of the First examn conducted at a Univ. in the U.K., in India, or in a British Colony, will be exempt from examn. in the subjects in which they have passed. (*b*) Candidates with colonial, Indian, or foreign qualifns. which entitle them to practise Medicine or Surgery in the country where such qualifns. have been conferred, after a course of study and examn. equivalent to those required by the regns. of the two Colls., will, if at least 21 yrs. of age and proficient in Vaccination, be admissible to the Second and

Final examns. without any intervals between them. (*c*) Members of English Univs. who shall have passed an examn. or examns. at their Univ. comprising the subjects of the First and Second examns. of the Board, and completed the curriculum of medical study required by the Board, will, 2 yrs. after having passed in Anat. and Physiol., be eligible for admission to the Final examn. of the Board on payment of 5 gs.; and after passing the Final examn. on the further payment of not less than 35 gs., and subject to the By-laws of each Coll., to receive the Diplomas. (*d*) Members of a Scotch or Irish Univ. may obtain a similar concession. (*e*) Any member of a colonial, Indian, or foreign Univ. recognized for the purpose may obtain a concession similar to (*c*), but has to pay 20 gs. before admission to the Final examn. and not less than 20 gs. before receiving the Diplomas.

The recognized Univs. include those of the U.K., Canada, Australia, N.Z., Cape Town, India, Hong-Kong, and various foreign countries.

For admission to the MEMBERSHIP OF THE R.C.P. (fee, 40 gs., *less* Licence fee, if any, already paid) the minimum age is 25, and a candidate must satisfy the Censors' Board as to his moral character and conduct and pass an examn. of such nature and extent as may be determined by the Board. If under the age of 40, he must prove a knowledge of Latin, and of either Greek, French, or German, in addition to proving his professional acquirements. If he has not passed the examns. required for the Licence, he must be a registered practitioner who *either* has obtained the degree of Doctor or Bachelor of Medicine at a Univ. in the Empire or a foreign qualification entitling him to practise Medicine or Surgery in the country where it was conferred, after undergoing courses and examns. which the Censors' Board consider sufficient, *or* has attained the age of 40, and can produce testimonials sufficient to satisfy the Board, and subsequently the Fellows, at a General Meeting, that he ought to be admitted to examn.

The FELLOWSHIP OF THE R.C.P. is conferred by election on a member of the College of not less than 4 yrs. standing.

Examns. for the FELLOWSHIP OF THE R.C.S. are held in May and Nov. Fees, first examn., 8 gs., 2nd, 12 gs., admission to Fellowship (minimum age, 25), 30 gs., or, for M.R.C.S. Eng., 20 gs., *less* examn. fees not exceeding 20 gs. The *First* examn. (in Anat. and Physiol.) is open to M.R.C.S. Eng., and, on production of certain certificates involving work extending over 3 winter sessions, to (*a*) candidates who have passed the First Examn., Pts. I. II. and III., and the Second examn. for the L.R.C.P. Lond. and M.R.C.S. Eng., and (*b*) members of Univs. recognized under the Regns. of the Board. The *Second* examn. (in Surgery, including Surg., Anat., and Path.) is open, provided they have passed the First, to (*a*) M.R.C.S. Eng. who have been engaged not less than 6 yrs. in the study or study and practice of the profession, and (*b*) persons possessing the registrable Surg. and Med. degrees of the undermentioned Univs., who have been engaged after obtaining such degrees in the study, or study and practice of the profession for 4 yrs., including 1 yr. spent in attendance upon the Surg. Practice of a recognized Hospl. or Infirmary: the Univs. of the U.K., Bishop's College, Dal-

housie, Laval, McGill, Manitoba, Queen's (Kingston), Toronto, Western (Ont.), Adelaide, Melbourne, Sydney, N.Z., Bombay, Calcutta, Madras, Panjab, Hong-Kong, Italian Royal Univs. and Imperial Univ. of Japan.

Examns. for the LICENCE IN DENTAL SURGERY (L.D.S., R.C.S. Eng.) are held, the Prelim. Science (identical with Pts. I. and II. of the Conjoint Board's First examn.) in Jan., March or April, July, and Sept., the First Professional in Jan., April, and Sept., and the Second Professional in Feb., May or June, and Nov.

Candidates must have been registered as Med. or Dental students by the Gen. Med. Council, or have passed one of the examns. in general education recognized by the Board, or in the case of a D.M.D. Harvard, or D.D.S. Penn., Mich., or Illinois, completed a 4 yrs. High School course at a reputable High School. Candidates for the Prelim. Science examn. (fee, 5 gs.) must have received instruction in Chem. (180 hours) and Physics (120 hours) in an institution recognized for the purpose. One who has passed in either for a degree in Med. at a Univ. recognized by the Board is exempt from further examn. therein. A holder of the Licence of the Dental Board of Victoria, Australia, or D.M.D. Harvard, or D.D.S. Penn., Mich , or Illinois is exempt from this examn.

The *First Professional examn.* (Pt. I., Mech. Dent., fee, 4 gs. ; II., Dent. Metall., fee, 1 g. ; III. (*a*) Anat. and Physiol., (*b*) Dent. Anat. and Physiol., fee, 4 gs.) is taken after 2 yrs. instruction in Dentistry in accordance with prescribed conditions. Those who have passed the second examn. of the Conjoint Board or the examn. in Anat. and Physiol. for a qualification registrable under the Med. Act of 1886, or for the M.D. of a foreign or Colonial Univ. recognized by the Board, are exempt from further examn. in those subjects in Pt. III.

For the *Second Professional Examn.* (minimum age, 21 ; fee, Part I. 2 gs., II. 4 gs.) prescribed study courses must have been completed, and, except in the case of a Colonial or Foreign Dentist, 6 mos. must elapse after passing the First before sitting for the Second Professional examn., and the candidate must before taking Pt. II. have been engaged in professional study during 4 yrs. after passing the required Prelim. examn. in general educn. Those who are M.R.C.S. Eng., or have passed the examn. in Surgery of the Conjoint Board, or for a qualification registrable under the Med. Act., 1886, are exempt from Part I. of the examn.

For the DIPLOMA IN PUBLIC HEALTH, Part I. of the examn. is held in June and Dec., and Part II. in Jan. and July ; a supplementary examn., Part I., may be held in April. Both Parts must be passed ; they may be taken together or separately. In the latter case Part I. must be passed before admission is allowed to Part II. Fee for each Part, 10 gs. (candidates who hold Diplomas of R. Colls., 6 gs.). Qualifications for admission to Part I. : a registrable qualifn. in Med., Surg., and Midw. held for at least 12 mos., and practical instruction during at least 240 hours for 6 mos. (subsequent to obtaining such qualifn.) in a laboratory recognized by the Examining Board, in Chem., Bact., and the Path. of Diseases of Animals transmissible to man ; for admission to Part II. : (*a*) 9 mos. special study of Pub. Health since obtaining

a registrable qualifn.; (*b*) 6 mos. (at least 60 working days) practical training in Pub. Health administration under a Med. Officer of Health of sufficient standing in the British Empire or under a Sanitary Staff Officer of the R.A.M.C. in charge of a unit recognized for this purpose by the General Medical Council; and (*c*) attendance twice weekly during 3 mos. after obtaining a registrable qualifn. on the practice of a Hospl. for Infectious Diseases, including instruction in Methods of Administration. Candidates who have held for 3 yrs. appointments as Med. Officers of Health of Sanitary Districts within the British Dominions having a population of not less than 15,000 may be exempt from condition (*b*), and the prescribed period, 6 mos. (and 60 working days), may be halved in consideration of having during 3 mos. attended after obtaining a registrable qualifn. a course of instruction in Sanit. Law, Vital Stats., Epidemiology, School Hygiene, etc., given by a teacher in the Dept. of Pub. Health of a recognized Med. School, or been resident Med. Officer in a Hospl. for Infec. Diseases of at least 100 beds.

The examn. for the DIPLOMA IN THE DISEASES AND HYGIENE OF THE TROPICS is held in Jan., April, and July. Fee, 9 gs. Qualifications for admission: instruction and clinical practice, as prescribed, during 3 mos. after obtaining a registrable qualifn. in Med., Surg., and Midw. Graduates in Med or Surg. of Indian, Colonial, and Foreign Univs. recognized by the Board, whose degrees are not registrable in the U.K. may also under certain conditions be admitted. The prescribed conditions of study may be modified in view of Foreign or Colonial Med. service, or public professional or teaching work, or original investigation in tropical countries.

All the above examns. are open to WOMEN, who are also eligible, subject to the provisions of the Medical Act, 1876, and Bye-laws of the Colleges, for the Diplomas of L.R.C.P., M.R.C.S., and F.R.C.S.

ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH, ROYAL COLLEGE OF SURGEONS OF EDINBURGH, AND ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW

Joint examinations, open alike to men and women, are held in Edinburgh in Oct., Jan., April, and July, and in Glasgow in April and July for the DIPLOMAS IN MEDICINE, SURGERY, AND MIDWIFERY of these three bodies. Applications for admission should reach the Inspector —in Edinburgh, D. L. Eadie, 49 Lauriston Place; in Glasgow, W. Hurst, 242 St. Vincent St.—one week before the examn. Fees: for First examn. (in Physics, Chem., and Elem. Biol.), £5, or for each subject, £2: 10s.; Second (Anat. and Physiol.), £5, or for each subject, £3; Third (Path. and Mat. Med. with Pharmacy), £5, or for each subject, £3; Final (Med., Surg., Midw., and Med. Jurispr., and Pub. Health), £15 for the whole, and £5 for M.J. and P.H. if taken separately. Exemptions: (1) from examn. in any subject of the first 3 examns. on production of

certificate (in which subject is specified) of having passed an equivalent examn. for a Med. qualification before certain Boards recognized by the 3 co-operating bodies; (2) from first 3 examns. in case of candidate possessing a recognized Colonial, Indian, or Foreign qualification entitling him to practice Med. and Surg. in the country where it was granted, provided he has passed a Prelim. examn., and attended a course of study as required by the Regns., and proved that he has passed for such qualifn. a separate examn. in each of the subjects of the first 3 examns. of the Joint Board. The Boards whose earlier Med. examns. are wholly or partly recognized are: the R.C.P. and R.C.S. in the U.K., the R.F.P.S., Glas., Conjoint Boards in England and Ireland, Univs. of U.K.; S.A. Lond and A.H. Dub. under provisions of Med. Act, 1886; Univs. in India and Univs. and Colls. in Brit. Dominions whose Matricn. examns. have been recognized by the Gen. Med. Council, whose curriculum fulfils the requirements of the Conjoint Board, and whose Diplomas are granted upon equivalent examns.; such foreign authorities as grant Med. and Surg. qualifications entitling to practice in the country in which granted as may be recognized as entitling to registration under the Med. Act, 1886, after a course equivalent to that required by the Conjoint Board, and preceded by an examn. in Arts recognized by the Gen. Med. Council.

Medical Qualification obtained in the U.S.A. The Scottish Conjoint Board resolved on 30th June 1920 to admit to its Final examn. any candidate who produces evidence of having passed the qualifying examn. of the National Board of Examiners of the U.S.A.

Examns. for the DIPLOMA IN PUBLIC HEALTH (fee, 12 gs., or for each Part, 6 gs.) are held early in Oct. in Edinburgh and early in May in Glasgow, the conditions being similar to those for admission to the corresponding examns. in England, v. p. 477.

The R.C.P. Edin. may admit to examn. for its single qualification —LICENCE—any candidate who has a Surg. qualification recognized for the purpose. Fee, 15 gs. Examns. held every month, except Sept. and Oct. Admission to MEMBERSHIP (minimum age, 24) is by election. Candidates must hold a Licence of a British or Irish College of Physicians or Degree in Med. of a Univ. approved by the Council, and pass the prescribed examn. unless exempted by the Council from the whole or part of it in consideration of work in any sphere of Med. adjudged to be of high distinction. Fee, 35 gs., or, if a L.R.C.P. Edin., 20 gs. A member of 3 yrs. standing may be elected FELLOW. Fee, 38 gs., and stamp duty, 25 gs. The College has a Library of 100,000 vols. and Research Laboratory.

For admission to the FELLOWSHIP OF THE R.C.S. Edin. candidates must pass an examn. (fee, £45, or for L.R.C.S. Edin., £35) in: (*a*) Principles and Practice of Surgery, including Surg. Anat.; (*b*) Clinical S.; (*c*) one of the following—including clinical or practical as well as written and oral tests—S. Path. and Operative S.; Ophth. S.; Aural, Nasal, and Laryng. S.; Obst. S.; Gyn.; Adv. Anat.; Dental S. Qualifications for admission to the examn. (which is not open to women): minimum age, 25 yrs.; 2 yrs.' study and practice of the profession

after obtaining one of the following, or other approved qualifications in S.: those of R.C.S. Eng., R.C.S.I., R.F.P.S. Glas.; Surgical degrees of the Univs. of the U.K. and Canada, Adelaide, Melb., Syd., N.Z., Bom., Calc., Mad., Panj.; L.M.S.S.A. Lond., and L.A.H. Dub. registered under the Med. Act, 1886.

At the final consideration of the candidate's petition for admission to the Fellowship election is determined by ballot.

Examns. for the LICENCE IN DENTAL SURGERY, R.C.S. Edin., are held at the end of Oct., middle of March, and beginning of July. One week's notice required. Open to men and women. The *First* examn. comprises: (*a*) Chem. and Physics, (*b*) Anat and Physiol. Fee, 5 gs., or for (*a*) or (*b*) separately, 3 gs. The *Second* (fee, 10 gs., or if exempted from First, 15 gs.) cannot be taken before conclusion of prescribed courses. It comprises: Surg. and Med.; Dental Anat. and Physiol., D. Surg. and Path., D. Mat. Med., D. Mech., and D. Metall., with practical, written, and oral examn. in Dental and Oral Surg., Path., and Mech.

Minimum age, 21. A candidate must have been registered as a Dental Student by the Gen. Med. Council; pass the usual Prelim. examn. of General Educn.; have been engaged in professional study for at least 4 yrs.; have attended for specified periods courses in the general subjects of a recognized Med. School, and for 3 mos. special courses at a recognized D. Hospl. and School, and for 2 yrs. the Practice (Surg. and Mech.) of a recognized D. Hospl. or D. Dept. of a General Hospl.; have received for 3 yrs. (if previously registered Med. Practitioner, 2 yrs.) practical instruction in Mech. D. from a registered Dentist or in the Mech. Dept. of a recognized D. Hospl. and School as apprentice or otherwise, either before or after registration.

Grounds for *exemption* (1) from First examn.: having passed the qualifying examns. in (*a*) and (*b*) for registrable Med. qualifications; (*pro tanto*) having passed in any of subjects (*a*) and (*b*) before any Dental Licensing Board recognized by the College its Final (or only) examn. in the subject, if co-extensive in scope and pre-requisite educn. with that of the College; (2) from proof of attendance on other than special Dental courses of lectures and instruction and from examn. in other departments than these: Registered Med. Practitioners. The Dental curricula of Indian, Colonial, and Foreign Boards may be recognized wholly or in part by the College

Examns. for the LICENCE OF THE L.R.F.P.S. Glasgow can be arranged at any time of the year, except August. Fee, 15 gs. Qualifications for admission: Licence of one of the Colleges of Physicians of the U.K. or Colonies, or of the Soc. of Apothecaries of London or Apothecaries' Hall, Dublin, conferred after passing the qualifying examns. of these bodies; Degree in Med. of a Univ. of the British Empire.

Examns for the FELLOWSHIP of the R.F.P.S. Glasgow are held in Jan., April, July, and Oct. 14 days' notice required. Admission to the Fellowship (fee, £30, or for L.R.F.P.S., £25; additional, qualifying to hold office, £20, or for L.R.F.P.S., £15) is either by examn. and subsequent election by ballot or by election in virtue of high distinction

in Med. Science or Practice of persons not less than 40 yrs. of age who have been qualified for at least 10 yrs. Not more than 4 Practitioners are admitted by the latter method annually. Candidates must be proposed by 2 Fellows of the Faculty. Special regns. for candidates who have served in the Great War.

Examns for the LICENCE IN DENTAL SURGERY OF THE F.P.S. Glasgow, are held early in April, July, and Oct. One week's notice required. Candidates must have been registered at the beginning of studentship, as Dental student, by the Gen. Med. Council, and produce certificates of 4 yrs. of professional study subsequent to registration and in accordance with prescribed conditions. Those already qualified under the Medical Acts need not produce evidence of attendance on courses in subjects not special to Dentistry, and will not be examined in such subjects. The *First Dental examn.* is in 3 divisions: (A) Chem. and Physics; (B) Dent. Metall. and Dent. Mech.; (C) Human Anat. and Physiol. Fee, 6 gs., or for each division, 2 gs. The *Final Dental examn.* is in (*a*) Principles of Surgery; Med., with Mat. Med. and Therap., mainly in their application to D. Surg.; (*b*) D. Anat. and Physiol., D. Path., Bact., and Surg.; (*c*) D. Surg. (Practical) in a D. Hospl. Fee, 9 gs.

All examns. of the R.F.P.S. are open to women as well as to men.

ROYAL COLLEGE OF PHYSICIANS AND ROYAL COLLEGE OF SURGEONS IN IRELAND

Address of Committee of Management of the Conjoint Board—Royal College of Surgeons, Stephen's Green, Dublin. Registrar of the R.C.P.—6 Kildare St., Dublin.

Professional examns. for the LICENCES IN MEDICINE, SURGERY, AND MIDWIFERY are held by the Conjoint Board in spring, summer, and autumn. Candidates must comply with the requirements of the Gen. Med. Council (v. *supra*) *re* Prelim. examn. and Registration of students. The *First* Prof. examn. (fee, 15 gs.) comprises Chem. and Physics and Biol. The *Second* (fee, 10 gs.), Anat. and Physiol. and Histol. The *Third* (fee, 9 gs.): (*a*) Path., (*b*) Mat. Med., Pharmacy, Therap.; (*c*) Forensic M. and Pub. Health. The *Final* (fee, 6 gs.): (*a*) Med., including Fevers, Mental Diseases, and Dis. of Children; (*b*) Surg., including Operative and Ophth. S.; (*c*) Midw. and Gyn., Vaccn., and Dis. of Newborn Children.

Institutions recognized for instruction in subjects of the First examn. include numerous schools in the U.K., and also the Univ. of Cape Town and Transvaal Tech. Inst. (now Univ. Coll.). Institutions recognized for certification of studies include: in Canada—the Univs. of Dalhousie, Laval, McGill, Toronto, Trinity Coll. and Vict. Coll. Tor.; Bishop's Coll., Montreal; R.C.P.S. Kingston; Trinity Med. Sch.; in Australia—Univs. of Melb. and Syd., Adelaide Infirmary, Melb. Hospl., Alfred

Hospl., Syd. Infirmary, Prince Alfred Hospl, Genl. Hospls. of Hobart and Launceston; in N.Z.—Dunedin Hospl.; in Cape Town—S. African Coll.; in India—Med. Colls. of Bengal and Madras; the Ceylon Med. Coll.

Candidates who have passed in any of the required subjects at examns. conducted by any Licensing Body recognized by the R.C.P and R.C.S. may be exempted from further examn. therein.

Examns. for the LICENCES OF THE R.C P.I. are held early in Feb., May, and Nov., and at specially appointed times. That for the *Licence in Medicine* (fee, 15 gs., or for Special examn., 20 gs.) comprises Practice of M., Clinical M., Path., Med. Jurispr., Midw., Hygiene, Therap. It is open to a Registered Med. Practitioner of the U.K. or on the Colonial or Foreign List of the Gen. Med. Council if the College be satisfied as to his character and his courses of study and examns. passed by him. The examn. for the *Licence in Midwifery* (fee, 5 gs., special, 10 gs.) is open to Registered Med. Practitioners: (*a*) of the U.K. who have (i.) obtained the Lic. in Med. of the College or have passed the examn. therefor, or (ii.) satisfied the College as to character and as to course of study pursued and examns. passed; (*b*) of 5 yrs' standing who have so satisfied the College. Entrants under (*b*) are exempt from the examn. by printed questions.

Examns. for MEMBERSHIP OF THE R.C.P.I. are held in Feb., June, and Nov., and at specially appointed times. Applications for admission should reach the Registrar by 2nd week in Jan, May, Oct. Fee, 35 gs. or for L.R.C.P.I., 20 gs.; extra for Special examn., 10 gs. The examn. is open to Registered Med. Practitioners: (*a*) who have held for at least a year a Licence in Med. of a College of Physicians of the U.K., or a degree (B. or D.) of any Univ. in the Empire recognized for registration purposes by the Gen. Med. Council, or (*b*) who hold a foreign qualification, entitling to practice Med and Surg. in their own countries, obtained after a course of study deemed by the College to be satisfactory. The testimony of a fellow or member of the College or a F.R.C.P. Lond. or Edin. as to professional conduct and moral character is also required. The Diploma of membership carries with it the Licence if this has not been already obtained. Exemption from part of the examn. may be allowed by the Court of Examiners on a consideration of evidence that a candidate has "improved the Art or extended the Science of Med."

For admission to the FELLOWSHIP OF THE R.C.P.I. (fee, £35; stamp duty, £25) the candidate must have been a member of the College for 1 yr. Minimum age, 27. It is open to women.

The R.C.S.I. holds examns. (fee, 5 gs.) for a LICENCE IN SURGERY at the same times as those of the Conjoint Board. They are open at the discretion of the Council to Registered Med. Practitioners who have passed through a course of study and examns. equivalent to those required by the Conjoint Board and an examn. in Arts recognized by the Gen. Med. Council. Fee for Licence, 25 gs., including 5 gs. examn. fee.

The R.C.S.I. also holds examns. for a DIPLOMA IN MIDWIFERY. Candidates must have a registrable qualification and produce certifi-

cates of attendance on Lectures, 6 months Hospital practice and conduct of 30 labour cases. Fee, 15 gs.

The examn. for the FELLOWSHIP OF THE R.C.S.I. is in 2 parts. Fee for each, 5 gs. For admission to the Final part a candidate must be a Licentiate or Graduate in Surg. of a Univ. or licensing body recognized by the Gen. Med. Council. Minimum age, 25. Fee on admission to Fellowship, 40 gs., or for Licentiate of the College, 25 gs.

THE SOCIETY OF APOTHECARIES OF LONDON

Incorporated by Royal Charter, 1617. *Address*—Water Lane, Queen Victoria St., London, E.C.4.

Examinations for the Diploma of Licentiate in Medicine, Surgery, and Midwifery (L.M.S.S.A.) are held in London, the Primary examn. fee, 5 gs.) in Elem Biol., Chem., Materia Medica and Pharmacy, Anatomy, Physiology, and Histology in Jan., April, July, and Oct., the Final (fee, 15 gs.), monthly, except in Sept. For admission to either, certificates are required, showing in detail the course of Medical study pursued by the candidate with particulars of instruction received, practice and operations performed, and offices held. The course covers 5 yrs. in all. Exemption from the Primary subjects may be obtained by proving that equivalent examns. recognized by the Society have been passed.

THE ROYAL COLLEGE OF VETERINARY SURGEONS

Address—10 Red Lion Sq., London, W.C.1. *Affiliated Colleges*—Royal V. College, Camden Town, London, N.W.1; The V. School of the University, Liverpool; Royal (Dick) V. College, Summerhall, Edinburgh; The V. College, Buccleuch St., Glasgow; Royal V. College of Ireland, Ballsbridge, Dublin.

A candidate for the *Membership* must, after passing one out of a list (similar to that of the Gen. Med. Council, v. *supra*) of recognized Preliminary Educational examns., attend courses in one of the Affiliated Colleges during 4 yrs. as follows:—1st year (from which exemption is given under certain conditions to graduates in Arts, Science, or Medicine): Anat. of Domestic Animals; Chem. and Elem. Physics; Biol., Elem. Zool., and Botany. 2nd year: Anat. of Dom. Animals; Physiol. and Histol.; Stable Management, Shoeing, etc. 3rd year: Path., Bact., and Protozoology; Mat. Med., Tox., and Practical Pharmacy; V. Hygiene and Dietetics. 4th year: Principles and Practice of V. Med. and V. Surg. and Obst.; Meat Inspection. An examn. (fee, £5) is held at the end of each year's course.

Qualifications for *Fellowship*: 2 yrs.' practice after obtaining the membership, and a thesis on results of original research followed by

oral and, if deemed necessary, written and practical examns. Fee, 15 gs.

For admission to the examn. for the *Diploma in V. State Medicine* it is necessary after graduation as M.R.C.V.S. to take a special course at a V. School and undergo training under a County or Municipal V. Inspector. Fee, £5 : 5s.

IX

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Address—17 Bloomsbury Sq., London, W.C.1.

Examinations (open to women as well as men) are held in London and Edinburgh in Jan., April, July, and Sept. or Oct. : the *Qualifying* examn. (fee, 12 gs.), for registration as Chemist and Druggist under the Pharmacy Act, 1868 ; the *Major* examn. (April and July, fee, 3 gs.), for registration as Pharmaceutical Chemist under the Pharmacy Act, 1852. No person can be admitted to any portion of the Qualifying examn. who is not a *Registered Apprentice or Student*, and this involves passing in English, Arith., Algebra, Geom., and 2 optional subjects at not more than 3 approved examns. It is recommended that one of the optional subjects be Latin. Among the approved examns. are those numbered in the list on p. 493 as 1, 2, 3, 4, 5, 6, 7 (Junior), 8 (*c*), 9*a*, 10*a*, 13*c*, 16*a*, 20, 21.

X

REGULAR COMMISSIONS IN H.M. FORCES FOR UNIVERSITY CANDIDATES

Provisional Regulations (*Army Orders* for March 1920 amended by A.O. 43 of 1921) provide for Commissions being granted in the Cavalry, R.A., R.E. (scheme to be reconsidered in Jan. 1924), Infantry, and R.A.S.C., and in the Indian Army. The following Univs., having established approved courses, are empowered to nominate candidates: (*a*) Oxford; (*b*) Cambridge; (*c*) London; (*d*) Edin., Dublin (Trin. Coll.), Manc.; (*e*) McGill, Sydney. The grant of Commissions in the Indian Army is limited to candidates from Univs. in the U.K. Commissions of accepted candidates will be antedated approximately 1 yr., *i.e.* to such dates as will give those appointed to the R.A. seniority over the Royal Military Academy cadets, and those appointed to other branches seniority over the Royal Military College cadets, who passed out of those institutions in July or Dec. (as the case may be) of the previous year. In exceptional cases a candidate who has graduated with First-Class Honours may be granted an additional antedate not exceeding 6 months. The commissions of accepted candidates for the R.A.S.C. who have taken a course in Engineering (other than Mining and Metallurgy) will be antedated approximately 18 mos., an additional antedate, not exceeding 6 mos., being allowed in exceptional cases; this arrangement will be reconsidered in Jan. 1924. These antedates will not count for the issue of pay or allowances; but in all cases in which increase of pay is dependent on the completion of a fixed period of service, service towards increase of pay will be considered as commencing from the date to which the commission has been antedated. The additional antedate for First-Class Honours will count for retired pay, but the ordinary antedate of about 1 yr. will not so count, and no portion of the antedate will count for Indian pension.

The Army Orders mentioned give full details of the requisite qualifications—general, academic, military, and physical. The age-limits are 21 to 25 (Indian Army 21 to 24) on Jan. 15 and July 15 for winter and summer nominations respectively; special limit of 27 for candidates who were serving on Jan. 1, 1920, or had served prior to that date satisfactorily in R.N., R.M., Reg. Army, S.R., I.A.R.O., Militia, T.F., Overseas Dominions' Forces, or R.A.F., provided they entered Univ. within 6 mos. of demobilization. Candidates must be unmarried.

Provisional Regulations (*Air Ministry*, Dec. 1920) provide on somewhat similar lines for the nomination of candidates for permanent commissions in the R.A.F. The max. age is 23 on June 1 of the year of nomination, or 25 for candidates who have served for at least 12 mos. prior to Jan. 1, 1920 in R.N., R.M., Reg. Army, R.A.F., S.R., I.A.R.O., Militia, T.F., New Armies, or Overseas Dominions' Forces. Preference given to those who have read for a degree in Genl. Engin. Sc., Aero. Engin., Physics, or Maths. Selected candidates will be attached during the long vacation to a Flying Unit for 6 weeks on probation.

XI

CHARTERED INSTITUTE OF SECRETARIES

OF JOINT-STOCK COMPANIES AND OTHER PUBLIC BODIES

Founded 1891. Incorporated by Royal Charter, 1902. *Address*—59A London Wall, London, E.C.2. Branches at Birmingham, Bradford (W. Yorks), Liverpool, Manchester, Newcastle-on-Tyne, Sheffield, Cardiff, Glasgow, Montreal, Brisbane, Melbourne, Sydney, Johannesburg.

Examinations are held in London and at various other places both at home and abroad in June and Dec. A candidate must either enter into Articles of Clerkship with a member of the Inst. for a period of 4 yrs. (if a graduate, 3 yrs.) or obtain registration as *Student*, for which a certificate that he is *bona fide* in course of preparation for the secretarial profession is required.

The *Preliminary* examn. (fee, 1 g., min. age, 16) comprises English (Grammar, Compn., Dictn.), Engl. Hist., Geog., Elem. Maths., one foreign lang., and one of Maths. (more Advanced), Physics, Chem., Elem. Mech., Stenography. Exempting examns. include matricn. of any recognized Univ. in the Empire, and those in list on p. 493, numbered 1, 2, 7, 8 (*b*), 9 or 10, 9*a* or 10*a* (Hons.), 11, 12, 13, 14, 16, 19 (Interm.), 23*a*, and the Prelim. of Inst. C.A. or Soc. of Inc. Acctts. and Audrs., provided, in case of 9*a*, 10*a*, and 16, that the candidate has passed in the above specified subjects. The Council may also exempt any candidate over 21 yrs. of age as to whose educational status they are satisfied.

For admission to the *Intermediate* (fee, 1½ gs.; min. age, 21) a candidate must have passed or been exempted from the Prelim. Graduates of recognized Univs. in the U.K., and persons who have passed the Final of the Bar Council, Law Soc., Inst. C.A., or Soc. of Inc. Acctts. and Audrs., can be exempted from the Interm. but must in that case pass the Final before election to membership.

For admission to the *Final* (fee, 2 gs.; min. age, 21) a candidate must have passed or been exempted from the Interm. The subjects are: Economics, Sec. practice and duties, Law and practice in connexion with meetings, Book-keeping and Accts., Merc. Law, an approved foreign language, and one special law subject (*e.g.* Gas, Water, Insurance) or Banking and Exchange.

Associate Membership can be obtained after 6 yrs.' service with a Public Coy. or Body; *Fellowship*, after 8 yrs.', of which 3 have been as Secy. or Asst. Secy.

Publications: *Yearbook*, *Secretarial Practice*, *The Secretary* (monthly, 1s.).

XII

SURVEYORS' INSTITUTION

Founded 1868. Incorporated by Royal Charter, 1881. *Address*—12 Great George St., Westminster, S.W.1.

Professional examns. (fees: Interm, or Final, 4 gs.; Direct Fellowship, 5 gs.; applications receivable in Sept.) are held in March in London, Glasgow, and Dublin, and a Prelim. examn. (fee, 1½ g.) in Jan. in the same places and Manchester.

The *Preliminary* (min. age, 16), for admission of students comprises Elem. Maths., Hist., Compn., and one of: Latin, French, German, Inorg. Chem., Botany, Geol. A candidate must be a pupil of a Surveyor or studying at one of the Univs. of the U.K. or their Affiliated Colleges or one of the following: the Agr. Coll., Uckfield; Harper Adams Agr. Coll., Newport; University Coll., Reading or Southampton; Seale-Hayne Agr. Coll., Newton Abbot. He is expected to reach the standard of examn. No. 8 (*b*) of the list on p. 493.

Candidates for admission as *Student* (min. age, 18) are exempt from undergoing the Prelim. if they have passed any of the examns. Nos. 7, 8 (*a*), 9 or 10, 9*a* or 10*a* (Hons.), 11, 12, 13, 14, 16, 19 (Interm.), or the Matricn. examn. of any Univ. in the U.K., Inst. C.E. Studentship, Prelim. of Inst. C.A., R.I.B.A., Law Soc. or Sandhurst or Woolwich.

For admission to the (i.) *Intermediate* (min. age, 19), a candidate must, unless at one of the institutions above mentioned, be actually engaged in an office where he has opportunities of obtaining practical experience in the profession. The subjects are grouped thus: I. chiefly Land Agency, II. chiefly Valuation, III. chiefly Building or chiefly Quantities, IV. chiefly Mining. A candidate may elect any one of these subdivisions. For the (ii.) ordinary *Final* (min. age. 21), a candidate must have passed the Interm. in the same subdivision which he takes for the Final. The (iii.) *Direct Fellowship* examn. (min. age, 30) may be taken, without having passed (i.) or (ii.), by a candidate who has been in practice on his own account for 5 yrs.

For election as *Professional Associate* (P.A.S.I.) a candidate must have passed (i.) and (ii.), and be in practice as a Surveyor on his own account or employed as an Asst. in a Surveyor's office. For admission as Fellow a candidate must have passed either (i.) and (ii.) or (iii.), and had 5 yrs.' experience either as Principal or Responsible Manager in an established business or as Head of a Dept. in the office of a public body reporting direct to his Board or Council.

Scholarships worth £80, £60, and £50, tenable for 3 yrs. at any Univ. in Great Britain, have been established by the Council.

XIII

TEACHERS' REGISTRATION COUNCIL

Constituted by Order in Council, 1912. *Address*—47 Bedford Sq., W.C.1.

Conditions of Registration (fee, £2) : (*a*) minimum age, 25 ; (*b*) a degree or other qualification approved by the Council ; if obtained in respect of a technological subject the applicant must have spent 36 months, after attaining the age of 16, in the practice of the profession or industry in question, and of this period 12 mos. must have been concurrent with or subsequent to the course for the degree (or other qualification) ; (*c*) successful completion of a course, extending over at least 1 academic year, or its equivalent, of training in the principles and methods of teaching, carried on under conditions approved by the Council and accompanied by practice under supervision ; (*d*) experience as a teacher in educational institns. accepted for the purpose by the Council for a period varying according to circumstances, but in no case less than 3 academic years, of which 2 must have been in one institn. or under one governing body unless the whole period has been spent in not more than 2 institns.

Conditions (*b*) and (*c*) are waived in the case of a teacher who has had not less than 3 academic yrs.' experience as Recognized Teacher in Univs. and institns. of Univ. rank approved by the Council for this purpose. Condition (*c*) may be modified in other cases where the Council is satisfied that facilities for the prescribed training do not exist.

XIV

EDUCATION AND TRAINING FOR TEACHING IN ENGLAND AND WALES

The Board of Education have recently consolidated their Regulations on this subject, and introduced several changes designed to promote the unity of the teaching profession and to remove barriers which have existed between its different branches, while giving ample scope for freedom and variety, which they regard as essential in the training of teachers, and encouraging Training Colleges to plan their schemes of training on different lines so as to provide for the requirements of the various kinds of school included in the national system of education.

Courses of Training qualifying for the Board's Certificate for Teachers in *Elementary Schools* are provided in independent Training Colleges and also in the Training Departments which form part of the work of all the Univs. (Wales—the Constituent Colleges, except Swansea; Durham—Armstrong College), both for men and (except Cambridge) for women, and also in the Univ. Colleges, Nottingham, Reading, and Southampton.

The Board recognizes for grants in respect of courses preparatory to teaching in *Secondary* Schools Departments of all the Univs. except Sheffield, and Reading Univ. College. Cambridge provides for men only, Leeds and Reading for women only.

Candidates for admission as *Recognized students* must, unless this condition is specially waived by the Board in any case, be British subjects ordinarily resident in the U.K.; they must, as a rule, be over 18, and must at least be over 17 on the first day of the academic year for which they are admitted, must give satisfactory evidence of health, character, and suitability for the profession, and must have passed the Prelim. examn. for the Elem. Sch. Teachers' certificate or, subject to provisos ensuring adequate proficiency in English, History, Geog., and Arith., one of the examns. in the list on p. 493, numbered 7, 8 (*b*), 9, 10, 11, 12, 13, 14, or some other examn. as to which the Board are, in particular cases, satisfied that it is equivalent to these in range and standard; they must give an *Undertaking to teach* in an Approved School after completion of their training for 7 (women 5) yrs. or to repay a certain proportion of the grant payable by the Board in respect of them. (In some case the Board has accepted service in a State School in one of the Overseas Dominions as a sufficient compliance with this undertaking.) A married woman is not admissible without the special sanction of the Board.

Candidates who satisfy the above requirements as to age, attainments, and character may be admitted as *Private students* without giving the prescribed Undertaking, but no grants will be payable on their account except in certain special cases, and the fees chargeable to them will be correspondingly higher.

The principal *types of courses* approved are: (i) 4-year, including 3 yrs. of study for a Univ. degree followed by a year of professional training; (ii.) 2-year, including a period of prof. training taken concurrently with a period of academic study; (iii.) 3-year, providing a year of further training for selected students who have completed (ii.); (iv.) 1-year—(*a*) prof. training for graduates or other advanced students, or (*b*) a year of partly prof. and partly academic study for Certificated Teachers. The foregoing give a suitable training for teaching in Public *Elementary* Schools. Other types are: (v.) in preparation, extending over not less than a full academic year, for teaching in *Secondary* Schools; (vi.) professional instruction, extending, as a rule, over not less than a full academic year, for teaching in *Continuation* Schools; (vii.) in preparation for teaching *Domestic Subjects*.

As regards (i.), a student may be admitted to the 2nd, 3rd, or 4th yr. if he has completed 1 yr., 2 yrs., or the whole of the course for a Degree before entering the Training Dept. and is over 18, 19, or 20 as the case may be. A student who has pursued a course of type (i.) will not as a rule be certificated as a Teacher unless he has passed a Final examn. for a Degree, but the Board may regard as qualified one who has failed to pass if he is specially recommended by the Univ. Authorities, or he may be recognized as a temporarily Certificated Teacher and subsequently qualify for permanent recognition.

(ii.) Suitable Univ. examns. forming recognized stages in courses for degrees may, subject to certain conditions, be approved for individual students in lieu of the Board's Final examn. Concessions similar to those above mentioned may be made to students who fail in a Final examn. for a degree.

(iii.) may include preparation for a Final examn. for a Univ. degree, provided an advanced course in the Principles of Teaching is included in it or taken separately, and certain other conditions are fulfilled.

For (iv.) any candidate who has not already served as a Certificated Teacher for 4 yrs. must be over 19 and have passed the Final examn. for a Univ. degree, or the examn. for the Diploma of Assoc. in Letters or Science of Univ. College, Reading, or an approved School Leaving Certif. examn. conducted by a Univ., including special advanced papers in English, a foreign language, and one other subject, or the Oxford or Cambridge Higher Local, including Arith. and English, Maths. or Science, Languages or Hist. or Geog., or the Nat. Froebel Union Higher certif., or some corresponding or higher examn. approved for the purpose. No 1-year student may be allowed to enter for an examn. which forms a recognized stage in the course for a Univ. degree.

(v.) Persons who have obtained a Univ. degree in Honours or its equivalent may be admitted as Recognized students, and will be eligible for maintenance as well as tuition grants if they sign the prescribed Undertaking. Others who have obtained a Univ. degree or a Special Honours Higher Local certif. (Ox. and Camb.) fulfilling the special requirements of the Board may earn tuition grants for the Dept. even though not giving the prescribed Undertaking. Students who have been admitted for a 4-year course and obtained a Univ. degree

in Honours or the equivalent may, on the recommendation of the Univ. authorities, take a type (v.) course instead of the fourth year of the type (i.) course.

A person, not under 21, who has obtained an approved degree in a Univ. of recognized standing or a Special Honours Higher Local certif. (Ox. or Camb.) fulfilling the special requirements of the Board may on certain conditions be recognized as a teacher in training in an approved Secondary School, the course extending over at least a full school year. If such a teacher has obtained an approved degree in Honours or its equivalent the School will be entitled to a tuition grant.

Teachers of any ordinary subject of instruction in recognized schools, etc., are eligible for *Studentships*: (*a*) "Special," not exceeding £100, for full-time courses of advanced study or research either at Univs. or institns. of Univ. rank in the British Empire, or at approved places in foreign countries; these are intended for teachers who are able to obtain a term or longer period of grace from school teaching for the purpose, not for the whole or part of an ordinary degree course; (*b*) "Assisted," not exceeding ¾ of the fees of the proposed course, for approved part-time courses in Univs. or institns. of Univ. rank; teachers so assisted would continue their ordinary teaching work at the School.

The League of the Empire (124 Belgrave Rd., London, S.W.1) promotes schemes for the interchange of teachers between the Mother Country and the Dominions. In 1920 the London County Council ruled that service in any State School of the Dominions should count as London service for the purposes of such interchange Canadian, Australian, and New Zealand Education Departments have reciprocated.

An Overseas Education League, under the auspices of the Govts. of the Dominion of Canada, Newfoundland, New Zealand, and the Depts. of Education of Alberta, B.C., Manit., N.S., N.B., Ont., P.E.I., Que., Sask., New S. Wales, Vict., W. Aust., Natal, and Sierra Leone, undertakes the organization of official visits of Teachers to Great Britain and other parts of the Empire, interchange of Teachers and School Inspectors within the Empire, etc. Office of the Hon. Organizer in Canada (the Gen. Secy., National Council of Education)—Parliament Buildings, Winnipeg.

PROFESSIONAL OPENINGS IN THE KING'S DOMINIONS OVERSEAS

Information on this subject is available in the *Professional Handbook* issued in 1920 by the Oversea Settlement Office, 6 St. James's Square, London, W.1., in 4 Parts: I. Barristers and Solicitors, Notaries Public; II. Physicians and Surgeons, Dentists, Vet. Surgeons, Nurses, Chemists and Druggists; III. Civil Service; Clerks, Stenographers, Typists, and Accountants; Governesses, Teachers; IV. Architects and Engineers, Auctioneers, Commercial Travellers, Police, Surveyors. Price of each Part, 6d.

XV

LIST OF EXAMINATIONS REFERRED TO IN THE PRECEDING APPENDICES

1. Oxford Responsions ;
1*a*. Oxford, First Public Examn. before Moderators ;
1*b*. Oxford, Prelim. Examn. in Jurisprudence ;
2. Cambridge Previous ;
3. London Matriculation ;
4. Durham Matriculation ;
4*a*. Durham, Examn. in Arts for the 2nd year ;
5. Wales Matriculation ;
6. Joint Board of Northern English Univs. (Manc., Liv., Leeds, Sheff., Birm.) Matricn. ;
7. The same Board's School Certificate ;
8. Oxford and Cambridge Schools Examn. Board's (*a*) Higher, (*b*) School, (*c*) Lower Certificate ;
9. Oxford Senior Local ;
9*a*. Oxford Junior Local ;
10. Cambridge Senior Local ;
10*a*. Cambridge Junior Local ;
11. Bristol School Certificate ;
12. Durham First School Certificate ;
13. London General School ;
13*a*. London General (School) Matricn. ;
13*b*. London Higher School ;
13*c*. London Junior School ;
14. Central Welsh Board's Senior or Higher Certificate ;
15*a*. University College, London, Matricn. ;
15*b*. King's College, London, Matricn. ;
15*c*. City and Guilds (Engineering) College, London, Matricn. ;
16. College of Preceptors, Senior ;
16*a*. College of Preceptors, Junior.
17. University College, Southampton, Special Entrance (Engineering) ;
18. Scottish Univs. Preliminary in Science ;
19. Scottish Educn. Dept. Leaving Certif. ;
20. Belfast Matricn. ;
21. N.U.I. Matricn. ;
22. Dublin General at end of Senior Freshman year ;
23. Irish Intermediate (Middle Grade) ;
23*a*. Irish Intermediate (Senior Grade) ;
24. Responsions at St. David's College, Lampeter.

XVI

MATRICULATION EXAMINATIONS BY JOINT BOARDS

UNIVERSITIES OF MANCHESTER, LIVERPOOL, LEEDS, SHEFFIELD, AND BIRMINGHAM (sometimes referred to as the "Northern Universities") *Address* of the Secy (J M Crofts), 315 Oxford Rd, Manchester The examn (fee, £2) is held at each of the Univs in July and Sept Candidates are required to satisfy the examiners in (1) English Compn and Literature, (2)English Hist, (3) Maths, (4) three of the following, one of which must be a language: Greek, Latin, French, German, some other approved language, Mechanics, Physics, Chem, Geog, *either* Nat Hist. *or* Botany, General Experimental Science (not for candidates who have taken Physics or Chem) The Univs. require special conditions for entrance to certain Faculties Some of these are indicated on pp 2 and 3 The requirement of Greek or Latin for admission to the Arts faculty of Liverpool is waived in the case of students holding the Secondary Ed Certif of the Egyptian Ministry of Ed, who are exempted by the Joint Board from the Matricn examn For admission to the Faculty of Engineering of Liv a candidate must have passed in Additional Maths, in Mechanics or Physics, and in two of the other optional subjects specified Leeds requires candidates taking Physics as a principal subject for the B Sc to produce evidence of adequate knowledge of Mechanics, and candidates for the B Sc. to have satisfied the Matricn examrs in at least one modern foreign language For admission to the Faculty of Engineering in Birmingham candidates must have passed in Mechanics and are recommended to take Addl Maths.

Holders of the Matricn Certif or a certif entitling to exemption from the examn. who require a certif of having satisfied examrs. in subjects not appearing on their certifs or in Addl Maths may be admitted to a Supplementary examn (fee 10s, or, for single paper subjects, 5s)

Exempting Examns Those in the list on p 493 numbered 1 and 2, London Interm examn, First examn in Arts, Sc, or Med of an Indian Univ, Secondary Ed Certif of Egyptian Ministry of Ed, Final examn. of Law Soc (in case of Barrister or Solicitor entering Faculty of Law), Special Army Ed Certif. at Advanced Standard, also, subject to provisos, Nos 3, 8 (*a*), 8 (*b*), 9, 10, 11, 12, 13, 13*a*, 13*b*, 14, 19, and School and Higher School Certifs of the Joint Board, Oxford Local Ex Delegacy, and Camb Local Ex Syndicate, also at the Board's discretion other examns of equal or higher standard

A special Matricn examn for *candidates of mature years* (not under 23 on May 1 of year of application) has been instituted Applications (with fee, £2, and birth certif) will be received up to May 1.

SCOTTISH UNIVS v. p 208
CANADA, v. pp. 267, 285, 339.
AUSTRALIA, v. p. 349.
S. AFRICA, v p. 390

XVII

INTER-UNIVERSITY SCHOLARSHIPS, ETC., CHIEFLY FOR ADVANCED STUDY OR RESEARCH

(i) Royal Commission for the Exhibition of 1851
(ii) Beit Memorial—Medical Research
(iii) Beit Fellowships for Scientific Research
(iv) Gilchrist Educational Trust
(v) Kitchener Scholarships
(vi) Foundations administered by the Royal Society.
(vii) Ramsay Memorial
(viii) Albert Kahn Travelling Fellowships
(ix.) Dixon Fund for Scientific Investigations
(x.) Charles Graham Medical Research Fund
(xi) Keddey Fletcher Warr Studentships for Research in Science.
(xii) Daglish Mining Fellowship
(xiii.) Johnston Chemical Scholarship
(xiv.) Grocers' Company Sanitary Science Scholarship
(xv) Cambridge Colleges Research Studentships, etc.
(xvi.) Rose Sidgwick Memorial
(xvii) Imperial College Scholarships tenable in American Universities
(xviii) Sir George Watson Chair of American History, etc
(xix) American College Scholarships.
(xx) Travelling Scholarships for Journalists
(xxi) Grants from the Department of Scientific and Industrial Research.

For *Rhodes Scholarships*, v p 165, for *Carnegie Trust* for the Univs of Scotland, and *Ferguson*, *M'Cunn*, and *Shaw* Scholarships, p. 211, *Walter Myers*, p 19, *Textile Research*, p. 67, *Garrett International*, *Johnston Colonial*, *Lloyds Register*, p 78, several administered by the Univ. of Manchester, p. 145

(1) SCHOLARSHIPS AWARDED BY THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851

I. *Science Research Scholarships.* £200 p a. for 2 or 3 yrs, to enable students to continue the prosecution of science with a view to aiding its advance or its application to the industries of the country. Open to British subjects, not over 30 yrs. of age, on recommendation by the governing bodies of the following Univs—Birm, Bris, Leeds, Liv, Lond, Manc, Sheff, Aberd., Edin, Glas, St And, Belf, Dal, McG, Queen's (Ont), Tor, Adel, Melb, Syd, N.Z, Cape Town; of Armstrong Coll, the Univ. Colls of Wales (except Swansea), Cork, and Galway; and of the R.C.Sc I. Candidates must have passed through a College curriculum and given distinct evidence of capacity for original

research, have been *bona fide* students of Science for a term of 3 yrs in a Univ. or College in which special attention is given to scientific study, and have spent the last full academic year in the nominating institn. or completed it within the last 12 months and been since then engaged solely in scientific study. A Scholp. may be held in any approved institn., but ordinarily a Scholar is required to proceed to an institn. other than that by which he is nominated. It will not be extended beyond 2 yrs. in the case of a student who has previously held one of the Bursaries described below.

II. *Probationary Bursaries* of £70 for intending Science Research Scholars, not over 25 yrs. of age, needing financial assistance and an opportunity to prove their capacity for independent research, are available in exceptional cases; an institn. nominating for a Bursary may not nominate for a Scholarship in the same year.

III. *Post-graduate Scholarship in Naval Architecture.* £250 p.a. for 2 yrs. for research work (for which no emolument will be receivable) in problems connected with design and construction of ships and their machinery and in the development of the shipbuilding industry at home and abroad. Open to British subjects under 30 who have passed with marked distinction through a course of study and practical training in N.A. at, and been nominated by, the R.N. College, Greenwich, Univ. of Glas. or Liv., or Armstrong College. The nominations are reported on by the Council of the Inst. N.A.

IV. *Industrial Bursaries* of not more than £150 p.a. for 1, 2, or, exceptionally, 3 yrs. to cover the period between leaving College and obtaining sufficiently remunerative employment in Industry. Open to British subjects under 25 recommended from one of the Univs. of Gt. Britain other than Sheffield or Edinburgh (Durham—from Armstrong Coll., Wales—from a Coll. other than Swansea), or from Belfast, the Imperial Coll. of Sc. and Tech., Heriot-Wall Coll., Univ. Coll. Nottingham, Cork, or Galway, or R.C.Sc.I. A candidate must have been a *bona fide* student of Science for a term of 3 yrs., should give evidence of practical ability likely to lead to his advancement in industrial work, and show that he has obtained, or can within 1 month of election obtain, an industrial post to be approved by the Commrs., and is in need of pecuniary assistance to enable him to hold such a post.

V. *Rome Scholarship in Architecture,* £250 p.a. for 3 yrs. Open to British subjects under 30 by competition conducted by the Faculty of Arch. of the School at Rome. A Student or Associate of the R.I.B.A. who is placed next in order of merit to the winner will be recommended for the Jarvis Studentship of £250 p.a., v. p. 460.

Rome Scholarships in Sculpture and in Decorative Painting, £250 p.a., tenable for 3 yrs. at the British School at Rome. Open to British subjects under 30 by competition conducted by the Faculties concerned. The Faculty of *Engraving* administers a Scholp. of the same value.

General. Women are eligible for all the Scholps. except III. and IV. Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7. Entries for the Rome Scholps. are receivable up to Dec. 31 by the Hon. General Secy. (same address).

(ii.) BEIT MEMORIAL FELLOWSHIPS FOR MEDICAL RESEARCH

Founded in 1909 by Sir Otto Beit, K.C.M.G., in memory of his brother Alfred, " to promote the advancement by means of research of Medicine and the allied sciences in their relation to Medicine." Ten, each of £400 p.a. and tenable for 3 yrs., with a possible maximum extension of 1 yr., are usually awarded in Dec. Open to graduates, men or women, in any Faculty, of a British Univ. Notice of each election is published 3 mos. in advance. Applications are considered by an Advisory Board composed of eminent Physicians and Surgeons. Special grants have been made from time to time for, or in aid of, particular objects of research. *Address* of Hon. Sec. to the Trust (from whom further particulars as to authorized places of research, etc., may be obtained)—35 Clarges St., Piccadilly, London, W.1.

(iii.) BEIT FELLOWSHIPS FOR SCIENTIFIC RESEARCH

Founded by Sir Otto Beit, K.C.M.G., in 1913 to promote the advancement of Science by means of research. Value £175 p.a. for 1 yr. with possible maximum extension of 1 yr. Tenable at Imperial College of Sc. and Tech., London, under supervision of a Prof. Fellows are required to devote their whole time to their research and to hold no appointment, paid or unpaid, without sanction of the Trustees. Open to men or women under 25, of European descent by both parents, who have taken a degree in any Univ. in the British Empire, or Diploma or Associateship of any College approved by the Trustees. Not open to holders of any other Scholarship or Fellowship. Elections, advertised 3 mos. in advance, are made annually in July. Applications should give full information as to qualifications, previous career, general character of proposed research, whether applicant has private means sufficient to carry on the research for 2 yrs. without aid of Fellowship, names of not more than 3 referees including one on the staff of the Univ. or College or a College of the Univ. at which the degree, etc., was obtained. Testimonials should not be sent. Capacity for research, personal record, and importance of proposed research will be taken into consideration. Fellow in 1919-20—J. A. Hey, attached to Dept. of Physics; 1920-21—M. A. Hogan, Civ. Eng. Enquiries may be addressed to the Rector of the Imperial College.

(iv.) GILCHRIST EDUCATIONAL TRUST

Most of the Scholarships, etc., awarded by the Trust are for students of particular institutions. The following are not so restricted:

Scholarships in *Turkish* (1) and *Chinese* (1). £50 tenable at the School of Oriental Studies, London, or, in the case of a student of the School of 1 yr.'s standing, in an Oriental country. Open to candidates of European origin. Awarded on results of an examn. held in July in Grammar, History of the Language and its Relationships, 2 set books,

unseen translation. Applications (in a prescribed form) receivable by the Director of the School up to May 15.

Several Scholarships of £30 tenable for 1 yr. in a *Training College for Women*. Open to graduates of a British or other recognized Univ.

Studentship tenable at the *British School at Rome*, £75 for 1 yr. At least 5 months to be spent in Rome. Open to men and women under 25 for a definite course of study for which Rome offers advantages and calculated to assist them in their profession. Applications with statement of previous training and proposed course, copies of not more than 3 recent testimonials based on personal acquaintance with candidate and his work, and any references, should reach the Secy. of the School, 19 Bloomsbury Sq., London, W.C 1, by Sept. 1.

Scholarship in *Economics and Home Science*. £50 tenable for 1 yr. at King's College for Women, London. Open to graduates of any approved Univ. or students who have successfully completed the 3 yrs.' course in these subjects. Evidence required of knowledge of not less than 2 of the following: Bact., Biol., Chem., Economics, Physics and Hygiene, Physiol., Psychol. Applications with account of educational career and not more than 3 recommendations should reach the Warden by June 8.

Studentship in *Geography*. £80 (in special cases, £100) for a definite course of advanced work extending in general over 9 mos., to be approved by the Trustees. No other work to be undertaken without written consent of the Trustees during the tenure of the Studentship. Open to Teachers of either sex who have had experience in teaching Geog. Applications, stating age, career, training in Geog., experience in teaching Geog., proposed work, time to be devoted to it, name of Headmaster, etc., to whom reference can be made, to reach the Hon. Sec. Geog. Assocn., 40 Broad St., Oxford, by Feb. 28. The student is required to sign a declaration of intention to continue to be a teacher of Geog. for 2 yrs. after expiry of the Studentship.

Address of the Secy. to the Trustees: 1 Plowden Buildings, Temple, London, E.C.4.

(v.) KITCHENER SCHOLARSHIPS

I. *For Study and Training*. Maximum value in any year £175 for maintenance *plus* tuition fees and, in case of study abroad, approved travelling expenses. Maximum period, 6 yrs; minimum age, 16. Open to officers and men of the Navy and Army of suitable age and sons of officers and men of the Navy and Army—as a rule, sons of deceased officers and men. Value and length of tenure will in each case be such as to enable successful candidates to undertake a complete course of industrial or commercial education at any Univ. or other approved institn.

II. *Travelling Scholarships* for graduates and others, for additional study at home or abroad in subjects such as Foreign Languages, Commercial subjects, Methods of Industrial Development, or Scientific and Technological subjects, with special reference to Trade and Industry in the Empire.

Application for full information should be made to the Secy., Lord Kitchener National Memorial Fund, 34 Norfolk St., Strand, London, W.C.2.

(vi.) FOUNDATIONS ADMINISTERED BY THE ROYAL SOCIETY

Mackinnon Research Studentships for "furthering Natural and Physical Science, including Geology and Astronomy and . . . original research and investigation in Pathology." Two of £150 p.a. for 1 yr., renewable (in exceptional cases) for a third yr. Open to British subjects. It is considered undesirable that a Studentship should be held in conjunction with a teaching post, nor may any other work be carried on during its tenure without the approval of the Council. Applications are invited by advertisement in time to enable award to be made before end of summer term. Candidates are required to state the nature of the research proposed (Mathematics excluded) and whether they hold any other endowments. Their other resources may also be taken into account.

Sorby Research Fund for original Scientific research. The income, about £600, is devoted to maintaining a Fellowship tenable ordinarily in the Univ. of Sheffield for 5 yrs., renewable for further periods. No permanent duties outside the research work may be undertaken. Appointments are made by a Committee composed of 4 persons appointed by the Council of the R.S. and 3 appointed by the authorities of the Univ. of Sheffield. The last appointment was in 1920.

Tyndall Mining Research Fund. The interest—about £35 p.a.—is devoted to maintaining an annual studentship, renewable by re-election, to promote research relating to mining.

(vii.) RAMSAY MEMORIAL FELLOWSHIPS

The Trustees (Chairman, Sir Hugh Bell, Bt.; Secy., Dr. Walter W. Seton, University College, Gower St., London, W.C.) award from time to time 3 Fellowships, value £300 a yr. for 2 yrs., for Chemical research. They can be held in any Univ. or other place in the U.K. possessed of the requisite facilities for research; also in exceptional circumstances in other parts of the British Empire, and, by special permission of the Trustees, elsewhere. One is limited to candidates nominated by the Univ. and the Royal Technical College, Glasgow.

(viii.) ALBERT KAHN TRAVELLING FELLOWSHIPS

Founded by M. Albert Kahn of Paris "to enable men of proved intellectual attainments to enjoy during one yr. or more sufficient leisure and freedom from all professional pursuits or pre-occupations to enter into personal contact with men and countries they might otherwise never have known; to issue from the world of books and their narrow sphere of habitual interests into the broader world of various civilizations, and all such human interests, struggles, and

endeavours as go to the making of general civilization." Value £660 (namely, £600 for travelling expenses and £60 for books and souvenirs), temporarily increased to £1000. Open to British subjects, men or women, who have graduated, or qualified for graduation, at a Univ. in the U.K. No age limit is imposed, but preference will probably be given, other things being equal, to persons between 25 and 35. Elections are made not later than May 31 each yr. on nominations made by any of the Vice-Chancellors of the Univs. in the U.K., or the President of the Royal Society or of the British Assocn. *Address* of the Secy. to the Trustees (F. J. Port, LL.B.): University of London, South Kensington, S.W.7.

(ix.) DIXON FUND FOR ASSISTING SCIENTIFIC INVESTIGATIONS

Administered by the Senate of the Univ. of London. Income available for grants—about £275. Applications receivable by the Principal between April 1 and May 15. Full information required as to nature and objects of research proposed, estimated amount required for it (detailed estimate to be given), any previous grant received for same object, what apparatus of permanent value will be needed. Names of two referees to be given. Instruments, specimens, etc., purchased out of grants to be returned to the Univ. Published results of researches to refer to the Fund, and 25 copies to be supplied to the Univ. Preference given to applicants who are graduates of the Univ. or who undertake to work in a Dept. or School of the Univ. or other Instn. connected therewith.

(x.) CHARLES GRAHAM MEDICAL RESEARCH FUND

Administered by the Univ. of London. A Scholarship in Pathology, value not exceeding £400 p.a. for 2 yrs., is awarded from time to time "to enable a young man to continue his pathological researches, and at the same time to secure his services to the School of Advanced Medical Studies connected with Univ. College Hospl. as a Teacher under the direction of the Prof. of Pathology." Applicants should give names of 3 referees, including a Teacher of the Univ. or College in which he has conducted his studies in Pathology. The Scholar is required to undertake teaching as well as research work.

(xi.) KEDDEY FLETCHER-WARR STUDENTSHIPS FOR POST-GRADUATE RESEARCH IN SCIENCE

Administered by the Senate of the Univ. of London. Value £200 for 3 yrs., renewable. Open to men and women of European descent who are graduates of some British Univ. or have qualified for such graduation, but preference is given, other things being equal, to a graduate of London of small or no private means. Awardable from time to time as notified in the Public Press.

(xii.) DAGLISH MINING FELLOWSHIP

Value about £120 for 1 yr. (renewable in exceptional cases for a second yr.) for the purpose of travel for 10 months chiefly in foreign mining districts. Open to a Mining student not under 20. Applications receivable up to Dec. 1 by the Secy., North of England Inst. of Mining and Mech. Engineers, Neville Hall, Newcastle-upon-Tyne.

(xiii.) JOHNSTON CHEMICAL SCHOLARSHIP

Value £105 for 1 yr., awarded on the results of an examn. in Chem. with Crystallography or Mineralogy, and tenable at Armstrong College, involving at least 24 hours per week throughout the session. Open to B.Sc. of any British Univ. of not more than 3 yrs'. standing from graduation. Evidence of previous training and ability to conduct an original Chem. investigation is required.

(xiv.) GROCERS COMPANY'S SCHOLARSHIPS

Three, £300 each, for 1 yr., renewable for 1 or 2 yrs., for inquiry into Causation of Prevalent Disease or as to means of Prevention of Premature Death. Cost of apparatus, etc., will be defrayed up to £300 in any one year. No other scholarship to be held or remunerative employment undertaken without sanction. Open to British subjects under 35. Applications in prescribed form receivable before April 1 by the Clerk, Grocers' Hall, Princes Street, London, E.C.2.

(xv.) CAMBRIDGE COLLEGES AND RESEARCH STUDENTSHIPS, ETC.

(*a*) TRINITY COLLEGE RESEARCH STUDENTSHIP AND COLONIAL EXHIBITIONS.—A Studentship of value (dependent on the student's pecuniary circumstances) not exceeding £200 p.a., tenable during preparation for the Ph.D. degree in the Univ. of Cambridge. Open to men who have graduated or before Oct. 1 will have graduated at any Univ. other than Cambridge, or who can show evidence of exceptional qualification for research, provided that at date of election they have not commenced residence in the Univ. of Cambridge. Tenure is conditional on permission being obtained from the Board of Research Studies to enter as a Research student (minimum age, 21; v. p. 45) and upon diligence in the approved course. Applications with certificates of birth, graduation, and character, record of education, any evidence of aptitude for research, and full account of pecuniary circumstances, should reach the Senr. Tutor as early as possible in July and not later than July 25.

The *Colonial Exhibitions* are provided in view of the difficulties which prevent students residing in the Colonies from competing in the open examn. for Scholarships, etc., held in Dec. They are of the annual value of £40, which may be increased by remission of College fees to £85 in cases of special need, and are tenable for 2 yrs. and possibly for 3. Candidates must apply through the principal authority of the

Univ. to which they belong. The Univ. authorities, if they think fit to forward an application, the candidate being in their opinion of marked ability and one of whom it may be confidently expected that he will profit by a further period of Univ. study, will send with it certificates of birth and character, record of scholastic career, confidential reports by professors, etc., having personal knowledge of his attainments, on his ability, industry, and fitness to profit by a course at Cambridge, and a statement of the means at his disposal. A selected candidate may enter as an ordinary or as a research student (v. p. 45).

(*b*) EMMANUEL COLLEGE RESEARCH STUDENTSHIP. — Value £150 p.a., tenable for 2 yrs. Open to a graduate from another Univ. beginning Research at Cambridge (v. p. 45).

(*c*) CORPUS CHRISTI COLLEGE. — The Almeric Paget Studentship, £150 for 1 yr., open to a graduate of any Univ. or person about to graduate. Election after exam., viz, English Essay and questions on Polit. Hist., Polit. Sc. and Econ. Applications, with evidence as to graduation and signed statement of age and proposed course of study, receivable up to July. Date of exam. in 1921—July 12.

(*d*) GIRTON COLLEGE RESEARCH FELLOWSHIPS.—1. *Science.* £300 p.a. for 3 yrs. (renewable up to 6 yrs.) for research in Math., Physical and Nat. Sciences. 2. *Arts* (Pfeiffer Fellowship). £250 for 3 yrs. (renewable up to 6 yrs.) for research in Language and Lit., Moral and Polit. Sc., or History. Open to women who are graduates or have taken Honours in a final degree examn. of any Univ., and members of the Girton College Roll. The Fellow will reside at the College (charge for rooms and commons, £60 p.a.) or, with the special permission of the Council, elsewhere. Applications, with description of a course of research, a dissertation or published work, and any other evidence of fitness, are receivable up to March 31, 1921.

(xvi.) ROSE SIDGWICK MEMORIAL FELLOWSHIP

Established by Americans in memory of a member of the British Educational Mission which visited the U.S.A. in 1918, in recognition of her service in the cause of Anglo-American friendship. Administered by the American Assocn. of Collegiate Alumnae. Value $1000 (providing tuition and residence during term for 1 yr., and about $400 in cash towards travelling expenses and incidental fees); tenable at any approved College or Univ. in the U.S.A. English friends of Rose Sidgwick have raised a fund to supplement the Fellowship by providing for outfit, etc., in case of need a sum not exceeding £30. Open to British women not over 35 yrs. of age, of graduate standing. Applications (with 6 copies of not more than 2 recent testimonials and 2 references) giving date of birth and information as to qualifications, experience, work proposed to be done during tenure of Fellowship, and any experience of speaking in public, should be sent before May 1 to Miss Theodora Bosanquet, 66 Avenue Chambers, Vernon Place, London, W.C.1. The award is made on the nomination of the Committee on International Relations of the British Federation of Univ. Women.

(xvii.) IMPERIAL COLLEGE SCHOLARSHIPS TENABLE AT AMERICAN UNIVERSITIES

In connexion with the Scheme of Interchange of Students organized by the American Univ. Union in Europe, the Governing Body of the Imperial College of Science and Technology, London, with the generous assistance of two of the College Governors, awarded to 5 of its students in May 1920 Scholarships of the value of £400 each, tenable at American Univs. for post-graduate courses of study for a period of 1 yr.

(xviii.) SIR GEORGE WATSON CHAIR OF AMERICAN HISTORY, LITERATURE, AND INSTITUTIONS

Founded by Sir W. G. Watson, Bt., who presented £20,000 for the purpose on the occasion of the return of the Prince of Wales from his American tour. Each yr.'s course will usually comprise about 6 lectures by an eminent authority, American or British. The courses will be given in the various British Univs. in rotation. A general Inaugural Lecture will be given in London by Viscount Bryce, O.M. in the summer of 1921. The Foundation is administered by the Anglo-American Society, 1 Central Buildings, Westminster, London, S.W.1.

(xix.) AMERICAN COLLEGE SCHOLARSHIPS

(*a*) BRYN MAWR COLLEGE SCHOLARSHIPS FOR WOMEN.—Three of $530 (covering fees for tuition and, during term only, board and residence during one academic year). Open to English, Scottish and Irish women qualified for graduate study. Further particulars obtainable from American Univ. Union, 50 Russell Sq., London, W.C.1.

(*b*) UNION THEOLOGICAL SEMINARY, N.Y. CITY.—Fellowship in Theol., $1200 for 1921–22, for advanced graduate work. Open to theol. students of high grade in England or Wales of any ecclesiastical communion who have completed a regular theol. course. Applications receivable by the Rev. the Principal, Mansfield College, Oxford.

(xx.) TRAVELLING SCHOLARSHIPS FOR JOURNALISTS

The Empire Press Union are preparing a scheme to enable young journalists of proved capacity to travel in the Empire Overseas.

(xxi.) GRANTS FROM THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Grants to individual research workers and students in training (in 1919-20, £26,700; 1920-21, estimate, £45,000) are made on recommendations by individual professors. Notes on the conditions under which such grants are made were published in April 1920, price 2d. The report for 1919-20 (Cmd. 905, price 1s.) includes an Appendix on Developments in the organization of Research in the *Overseas Dominions and in the U.S.A., France, Italy, Belgium, and Japan.*

XVIII

FOREIGN UNIVERSITIES

In the following pages are given the result of a recent attempt to gather information likely to interest British students contemplating study abroad. The following questions were asked, and the replies will be found marked with the letters (*a*), (*b*), etc.

UNDERGRADUATE STUDIES. (*a*) In what faculties are courses qualifying for degrees, diplomas, or certificates open to British students desiring to study in your Univ. ?

(*b*) What are the conditions of admission to such courses ?

(*c*) If a British student has passed a Matriculation or other examination qualifying for admission to courses qualifying for degrees in a British Univ., can he be admitted without further examination to such courses in your Univ. ?

(*d*) If not, does your Univ. recognize any other British tests as qualifying for admission to your degree courses ?

ADVANCED STUDY AND RESEARCH. (*a*) In what faculties are graduates of British Univs. admitted to courses of advanced study and research ?

(*b*) For what degrees or diplomas or certificates of your Univ. can they, by such advanced study or research, qualify ?

(*c*) What periods of residence at your Univ. and what other conditions are necessary for so qualifying ?

These summaries are obviously fragmentary and inadequate, but it was thought worth while to publish them now instead of waiting until next year, when more ample information will be available.

BELGIUM

Universities at Brussels, Ghent, Liége, Louvain. The inchoate " Université Internationale " held its inaugural session, Sept. 5-20, at the Palais Mondial, Brussels. The Fondation Universitaire, founded by H. C. Hoover and his colleagues of the Commission for relief in Belgium, has an office at 74 rue de Namur, Brussels. The Anglo-Belgian Union, 35 Albemarle St., London, W.1, and 32 rue de Namur, Brussels, has a sub-committee for " échanges intellectuels et universitaires."

BRUXELLES (UNIVERSITÉ LIBRE)

Recteur: Ch. De Keyser. *Présidents des Facultés*: Philos. et Let.—M. A. Kugener; Droit—P. Errera; Sciences—G. Chavanne; Méd.—J. Bordet; Sc. Appliquées—H. Vanderrydt. Ecole des Sc. Polit. et Soc.; Ecole de Commerce. At Brussels is also an Ecole de Méd Vét. de l'Etat.

It rests with the Faculty concerned to decide on questions of equivalence of foreign academic records with the ordinary Belgian qualifications for admission to Univ. courses. Of 362 recipients of Diplômes scientifiques in 1919–20, 59 were foreigners, including 15 from Great Britain and 3 from S. Africa.

GAND (GHENT)

Recteur: M. H. Pirenne. Administrateur—Inspecteur, Directeur des Ec. du *Génie Civil* et *des Arts et Manuf.*: M. A. Roersch. *Doyens des Facultés*: Philos. et Let.—M. G. Hulin de Loo; Droit—M. P. Vermeersch; Sciences—M. O. Steels; Méd.—M. P. van Durme. Prés. de l'*Inst. Sup. d'Educ. Physique*—M. F. Gommaerts. Inspecteurs des études des Ec. du *Génie Civil* et *des Arts et Manuf.*: Ec. prép.—M. J. J. van Rysselberghe; Ec. Spéciale—F. Keelhof. Prés. de l'Ec. Spéciale de *Commerce*—M. E. Dauge.

UNDERGRADUATE STUDIES.* (*a*) and (*b*) In all, but students have to pass an admission test. (*c*) Yes, if he can prove his certificates and diplomas obtained in England. (*d*) No.

ADVANCED STUDY AND RESEARCH.* (*a*) In all. (*b*) For every legal diploma.

* v. p. 504.

LIÉGE

Rector Magnificus: Dr. Eugène Hubert, Prof. d'Histoire. *Doyens des Facultés*: Philos. et Let.—Dr. L. Halkin, Prof. d'Hist. Anc.; Droit—Dr. Ch. De Jace, Prof. d'Ec. Pol.; Sciences—Dr. L. Colson, Prof. de Chimie; Méd.—Dr. X. Francotte, Prof. de Path.; Tech. (Ec. d'ingénieurs)—Dr. E. Nihoul, Prof. de Chimie. At Liége is also the Inst. électrotech. Montefiore.

UNDERGRADUATE STUDIES * (*a*) All Faculties. (*b*) Certif. d'humanités complètes; for Fac. Tech. students undergo an examn. in Maths. (*c*) The Faculty concerned examines each case and determines the question of equivalence.

ADVANCED STUDY AND RESEARCH.* (*a*) All Faculties. (*b*) Each case is considered on its merits.

VACATION COURSES. Held before the war; not yet re-established.

LOUVAIN

Rector Magnificus: Mgr. P. Ladeuze, D.D. *Deans of Faculties*: Divinity (Roman Catholic)—N. Balthasar, D.D.; Law—L. Dupriez, LL.D.; Med.—A. van der Straeten, M.D.; Philos. and Let.—F. Mayence, D.Ph.; Science—C. J. de la Vallée Possin, D.Sc. Pres. of Sch. for *Polit. and Soc. Sc*—J. N. M. van der Heuval, LL D. (Minister of State). Pres. of *Higher Commercial Sch.*—A. E. Janssen, LL.D. Pres. of *Superior Philos. Inst.* (St. Thomas Aquinas)—Mgr. S. Deploige, LL.D., D.Ph. Pres. of Schools for *Engineering, Mining, Arts and Manuf., Archit., and Electricity*—C J. de la V. Poussin, D.Sc. Pres. of *Agronomie Inst.* and of Sup. Sch. for *Brewery*—P. Biourge, D.Sc. Director of Prep. Inst. for Tech. Schools—L. Marchal.

UNDERGRADUATE STUDIES.* (*a*) In all the Faculties, Schools, and Institutes. (*b*) No special conditions of admission, except for Sch. for Engin., Mining, etc., for which an entrance examn. is required.

(*c*) Yes (except as above), provided the Matricn. or other examn. Certif. is equivalent to the Certif. of the Belgian Grammar Schools. Such Certifs. should be authenticated by a Govt. Board if the student wishes to obtain Certifs. and Legal degrees authenticated by Govt. (M.D., LL.D., Ph.D., D.Sc. Eng.); if not the Univ. confers Scientific or Academic degrees. For the Sch. of Engin. etc., an entrance examn. is required even for those who have the Belgian Certif. d'Humanités.

(*d*) The Univ. is prepared to consider any such tests, examining and comparing syllabuses and requiring a supplementary test for such branches as are not included in the British examns.

ADVANCED STUDY AND RESEARCH.* (*a*) and (*b*) In all the Faculties and Institutes. In every case the list of branches on which the examn. was passed is compared with that of the Univ., and if identical or

* v. p. 504.

equivalent the student can proceed further and obtain the degrees in course. A supplementary examn. may be required for such branches as are not comprised in the British tests. This applies, of course, only to those who desire to pass the regular examns. (whether for Legal or Academic degrees). Students may at all times follow such lectures as they choose ; such " free " students are most welcome to Laboratories of Sciences : Biol , Cytol., Physiol., Bact., Path., Chem., Embryol., Microbiol., Geol., Palæont., etc., as well as the special schools for languages (Semitic, Oriental, etc.), Hist., Philol., and Philos.

Special Advantages for Foreign Students. Both French and Flemish may be easily learnt. Students can attend, in addition to the special branches selected, the courses of Language and Literature (especially French) in the Faculty of Philosophy and Letters. Louvain being merely a Univ. town and centre of intense intellectual life, they have all facilities for acquiring a thorough knowledge of Belgian Art, Lit., and Culture, either through the various series of conferences organized by the Univ. and Schools, or in the numerous clubs, societies, and seminaries amongst the students, with a professor as chairman, which are most flourishing, and constitute a highly interesting feature of Louvain Univ. life.

CZECHO-SLOVAKIA

PRAGUE: CHARLES UNIVERSITY (founded 1348)

Rector: František Mareš, M.D., Prof. of Physiology. *Deans of Faculties*: Theol. (Roman Catholic)—V. Hazuka, D.D., Ph.D., Prof. of Semitic dialects and Assyriology; Laws—Jan Kapras, LL.D., Prof. of Hist. of Bohemian Law; Philos.—Josef Janko, Ph.D., Prof. of German Lang. and Lit.; Med.—Ivan Honl, M.D., Prof. of Bact.; Nat. Sc.—Karel Petr, Ph.D., Prof. of Maths.

UNDERGRADUATE STUDIES.* (*a*) In all Faculties. (*b*) Leaving examns. in a humanistic secondary school. (*c*) As a rule, yes.

ADVANCED STUDY AND RESEARCH.* (*a*) In all Faculties. (*b*) D.D. (only for Roman Catholics, but there is a Faculty of Protestant Theology outside the Univ. which has the right of conferring degrees), LL.D., M.D., Ph.D., Sc.D. (*c*) In all Faculties. 4 yrs. of residence, Med. 5 yrs.; but for foreign students terms spent in their Univ? may be at least partly included in the prescribed period.

SPECIAL FACILITIES AVAILABLE FOR BRITISH STUDENTS. The Director of English Seminar, Prague I., Veleslavinova, 96, is prepared to answer enquiries by students proposing to study at Prague.

DENMARK

(Contributed by the President, Anglo-Danish Students' Bureau, London Branch)

THE UNIVERSITY OF COPENHAGEN has always been, and is at present, the only Univ. of the country. For some time past there has been a general desire to have one more, and the incorporation of the Danish part of Slesvig in 1920 has intensified this need. There are now plans of establishing a second Univ. in Jutland, and the seat of this institution is most likely to be *Aarhus*, the largest city but one (about 100,000 inhabitants), which has many advantages for the realization of such a plan in its great hospitals, its excellent library and museum. This is, however, still a dream of the future, which cannot be expected to realize until 3 or 4 yrs. hence.

HISTORY AND CONSTITUTION. The Univ. was opened in 1479, in accordance with a Papal Bull of June 19, 1475. Beginning as a School of Theology, and by degrees adding the other faculties when the need for them arose, the Univ., faithful to its historical traditions, still

* v. p. 504.

contains only five faculties: Theology, Law (now including Polit. Econ.), Medicine, Arts (Det Filosofiske Fakultet), Science (including Maths.). Other subjects, which are in England generally treated as Univ. subjects, are taught at special institutions at Copenhagen, not being incorporated in the Univ., but, like it, under State supervision: *Engineering* at the so-called Polytekniske Læreanstalt; *Agriculture* at the Royal Vet. and Agr. College; *Fine Arts* at the Royal Academy of Art; *Music* at the Academy of Music (Musikkonservatoriet).

The academical year is divided into 2 terms (Semestre), beginning on Sept. 1 and Feb. 1 respectively. Christmas holidays: Dec. 23–Jan. 6. Easter holidays: Wed. before till Tues. after Whitsunday. Long vacation: June 9–Sept. 1. The number of matriculated students of the Univ. proper was in 1919–20: 2736.

The Univ. is a self-governing and, to a great extent, a self-supporting institution besides being a State Univ. Thus it relies for its income partly on large endowments of bygone ages, and partly on State aid. The rector and deans of faculties are elected each year by a limited body of the professoriate called Consistorium. *All tuition is free*, and a very great number of scholarships and fellowships are available to Danish students, often including free residence at one of the colleges. Nearly all lectures are open to the public without fee or ticket. The only fees charged to students are a matricn. fee of a little more than £1, and a similar fee for examns.

Rector Magnificus for 1921 is Prof. *Otto Jespersen*, Dr.phil., D.lit. *Referendarius Consistorii* is Prof. *H. Munch-Petersen*, Dr.jur.

ADMISSION. (I.) According to the Statutes any student who wishes to study at the Univ. must matriculate. The matricn. is, however, not an examn., as the entrance examn. will generally have been passed by the student as a Final examn. on his leaving the school or institution at which he has been prepared for the Univ. Thus the matricn. simply consists in paying down a fee once and for all of 22 kroner. Candidates must bring: (i.) a certificate from the school or other Univ. attended; (ii.) birth certificate. The student will then in due time receive the document styled "Akademisk Borgerbrev" in proof of his being admitted as "Civis Academicus."

(II.) Any matriculated student who wishes to attend the teaching of the Univ., and enter for examns., must enter his name on the annual list kept of all students in the course of the month of Sept. of each year. The student will then receive without any fee or payment an *Identity Card* for the year, enabling him to obtain cards of admission to lectures, courses, laboratories, etc. In brief, with this Identity Card in his possession he enters into his rights as "Civis Academicus."

UNDERGRADUATE STUDIES. British undergraduate students with a matricn. certificate from their own Univ. will be admitted on the same conditions as Danish students, and degrees, diplomas, and certificates will be open to them.

There is no fixed time for the duration of the courses of studies, the candidate can enter for his examn. when he thinks fit. However, the courses of studies at Copenhagen are generally longer than those

at British Univs., the minimum being usually 5 yrs. A good knowledge of the Danish language is essential, if not indispensable, in order to derive the full benefit from lectures and courses.

ADVANCED STUDY AND RESEARCH. The Univ. offers great advantages for research students by its excellent library of more than 500,000 vols. and 6500 MSS., which, amongst other things, contains the famous Arnemagnæian collection of Icelandic and a very valuable collection of Oriental MSS ; also the still greater Royal Library may be mentioned in this connexion. On the whole, as the Univ. is situated in the metropolis of the country, it is unique in that its under-graduate and post-graduate students have at their disposal all the facilities afforded by its central position in the midst of all the most important institutions of the Kingdom.

DANISH DOCTOR'S DEGREES will, no doubt, be open to foreign students, but are considered some of the most difficult to obtain, and, as far as can be ascertained, have never yet been taken by any foreigners. After having had his thesis recognized by two censors of the Professoriate, appointed by the Univ., the candidate is required to publish it, and then on an appointed day defend his thesis in public, not only against the said two censors as chief opponents, but against any one from the audience who wishes to take part in the disputation. It is also worth mentioning that the whole performance must be conducted either in Latin or in Danish.

VACATION COURSES. The only vacation course so far given in Copenhagen was a *summer course in Agriculture* at the Royal Vet. and Agr. College from June 25 to July 25, 1920. This course was given to foreign students, with special reference to British students. The lectures were delivered in English by Professors of the College and other agricultural experts on topics like : Organization and Co-operation, Animal and Plant Breeding, Dairy Industry, Seed-Testing, Control of Diseases in Animals and Plants, Education, etc. The course included excursions under the guidance of an English-speaking Agr. expert to experimental stations, farms of animal and plant breeders, schools, agr. summer exhibitions, cattle and horse shows, dairies, bacon and sugar factories, etc. A similar course will no doubt be conducted this year, but no programme has been issued as yet.

STUDENT ORGANIZATIONS AND INFORMATION BUREAUS. The students of the Univ., as well as those of cognate institutions, have founded students' representative councils for each college respectively. The joint representative body of these different councils is the *Danish Students' International Committee*, whose aim it is to promote every kind of international collaboration between the Univ. circles of Denmark and those of other countries. Foreign students who want to get acquainted with Danish institutions, or are desirous of obtaining information about Danish Univ. life, will therefore always be met with the greatest sympathy by this Committee. In order to further their ideas and put them on a practical basis, the Committee have established a *General Information Bureau* in the Univ. itself. All inquiries should

be directed to—The Secretary, Danish Students' International Committee, Studiestræde 6, Copenhagen K., Denmark.

Moreover, the Committee have established branch offices in the central Univ. towns of different countries.

For England: Anglo-Danish Students' Bureau, 50 Russell Square, London, W.C.1.

France: Foyer franco-scandinave, 25 rue Servandoni, Paris.

Italy: Comitato Internationale degli Studiosi danesi, 42 via Campo Marcio, Rome.

In U.S.A. the American-Scandinavian Foundation have undertaken the representation of the Committee; address: 25 West Forty-Fifth Street, New York City.

And for Germany, the Danish clergyman in Berlin, Pastor B. Lindhardt, Sesemerstrasse, 20, has placed himself at the disposal of the Committee.

FELLOWSHIPS. The only Fellowships for foreign graduates who want to study at the Univ. are the *Exchange Fellowships* between the U.S.A. and the Scandinavian countries offered by the *American-Scandinavian Foundation*. There are 5 each year, and the subjects mentioned in the prospectus of the Foundation are the following: Industrial Organization, Co-operative Agriculture, Agricultural Sciences, Bacteriology, Chemistry and Physics, Folk High Schools, Language and Literature, other Humanistic subjects.

All applications for these Fellowships, which are of the value of one thousand dollars per annum each, should be directed to—The Assistant Director of Students, The American-Scandinavian Foundation, 25 West Forty-Fifth Street, New York City.

J. H. HELWEG.

FINLAND

HELSINGFORS (founded in Abo in 1640)

This, the only State Univ. in the country, is organized on the same lines as those of the Scandinavian countries. Foreigners who are members of a Univ. of approximately the same standing may carry on their studies in the several faculties and obtain the degrees. All lectures are given in one of the two national languages of Finland, Finnish and Swedish, which are also used in all examns., written and oral. Doctor's dissertations may be in these or any of the great living European languages, or in Latin. The number of immatriculated students is 2700, of whom one-fourth are women. Female students have in every respect the same rights as men.

FRANCE

For full information regarding the French Univs. students in the U.K. are recommended to apply to the Office Nationale des Universités et Ecoles françaises, London Branch, 50 Russell Square, W.C.1. In America the Office Nationale has a representative in the Institute of International Education, 419 West 117th St., New York. The Handbook, *Les Universités et les écoles françaises* (300 pp), published by the Office, contains full details concerning admission, degrees, etc.

The French Univs. which grant degrees and most of the other Institutions of Higher Learning in France, as well as the Lycées and Primary schools, are under the direction of the Minister of Public Instruction. The degrees, diplomas, and certificates obtainable at the Univs. are of two kinds—those of the State and those of the Univ. ; the latter, while attesting with equal authority the same and other courses of study, do not confer the right to practise a profession in France. Further, the unified control of the Univs. has resulted in giving to the degrees granted by all of them a uniform value. In this connexion it is noteworthy that the word " Université " is frequently used to denote not what is signified by the English word, but the entire system of French education of all grades, *e.g.* " Professeur de l'Université " means a person *qualified* to teach in a Univ. whether he actually teaches in one or not. Uniformity in the essentials of administration does not, however, prevent each Univ. from having a character of its own, and their differentiation is accentuated by the practice of devoting special attention to the study of Local History, Dialects, Industries, and Economic Conditions. Associated with the Univs. are numerous Institutes and Schools for the cultivation of Special branches of Knowledge, Technology, and Research. The Office Nationale draws special attention to the advantages for foreigners of studying in a provincial Univ., where initiation into French life is easier and more intimate relations with teachers and fellow-students can be established than in Paris, and where the cost of living is appreciably lower.

Admission to courses of lectures in the Faculties of Science and Letters of the Univs. can ordinarily be obtained on payment of the prescribed fees by foreign students of either sex, without difficulty and without any preliminary test of their qualifications, and in many places " sections étrangères " have been organized for their benefit, and, for students of the French Language, Literature, History, Institutions, etc., " Cours spéciaux d'études françaises." It is, however, advisable in all cases and necessary for " immatriculation " (entitling, to take part in all the work of the Univ. and utilize its libraries, collections, etc.), that the student bring with him a passport or birth certificate, and (though the Dean of the Faculty may allow matricn. without this if satisfied on other grounds as to the candidate's qualificatipns)

an academic diploma or certificate. It is also advisable to have the latter as well as the former *visé*-ed by a French Consul. On arrival in France a declaration of residence must be made at the Préfecture de Police or Mairie and a certificate, " récépissé," of the declaration obtained (free of charge). It may also be necessary to obtain official translations by a " traducteur juré " of the passport, etc.

The method of qualifying for a degree is somewhat similar to that prescribed for London External students: continuous residence and attendance on prescribed courses are not required, the candidate's fitness being ascertained merely by examinations. For all the State and some of the Univ. degrees and diplomas, however, " inscription " at intervals of 3 months is required, but not necessarily at one and the same Univ. It is effected on each occasion by the student himself attending at the office of the Secretary and paying a fee, ordinarily 30 fr. *plus* a library fee of 10 fr. and, for some courses, laboratory fees. At the first " inscription " must be presented a duly *visé*-ed passport or birth certificate with official translation, a diploma or certificate equivalent to the French Baccalauréat and the " récépissé " mentioned above. The Baccalauréat does not correspond with our bachelorship, but marks the satisfactory completion of a course of secondary education. A matriculation certificate of a Univ. in the U.K. is regarded as equivalent to it, but the document, whether a matricn. certif. or one of equivalent or higher standard, should be accompanied by an official translation and a formal request on stamped (2 fr.) paper (obtainable from any stamp-vendor) addressed to the Ministry of Public Instruction for an " équivalence du baccalauréat " All these documents—passport, etc., certificate, translations, " récépissé " and request—must be delivered personally to the Secy. of the Faculty or School in which it is desired to register. Graduates seeking to obtain a Doctorat would similarly apply for an " équivalence " of the Licence instead of the Baccalauréat.

In nearly all the Univs. there are special committees who make it their business to assist foreign students in obtaining all needful information. In some cases railway and steamer tickets at reduced fares can be obtained.

AIX-MARSEILLE

Recteur: J. Payot (at Aix). *Faculties*: Droit and Lettres at Aix; Sciences at Marseille, where are also an Institut technique supérieur, Ecole d'Ingénieurs, Inst. Colonial with Museum, Ecole de plein exercice de Méd. et de Phm., Faculté libre de Droit, and Observatoire. At Endoume, on the sea-coast, is a Laboratory of Marine Zoology. Special booklet for foreign students. Office des étudiants at the Hôtel-de-Ville, Aix, gives advice regarding board and lodging, etc.

ALGER

Recteur: E. Ardaillon. *Facultiés*: Lettres (Doyen—R. Basset); Droit (M. Morand); Sciences (E. Ficheur); Méd. et Phm. (J. Curtillet). Certif. d'études fr. and Diplôme d'études universitaires for foreign students.

BESANÇON

Recteur: M. Alengry. *Facultiés*: Sciences (Doyen—M. Fournier); Lettres (A. Kontz). Ecole de Méd. Inst. Colonial. Ecole de Chimie Indust. et Agr. Ecole prép. de Méd. et Phm. Cours de Français pour les étudiants étrangers under direction of M. Rouget, Dir. hon. de l'Ecole Normale, (both in terms and vacation). Vacation courses, reorganized in 1920, July 1 to Oct. 31. Registration for whole period, 225 fr.; 2 weeks, 75 fr.; 1 mo., 120 fr., etc. Certif. d'études fr. (Diplôme d'Univ.) obtainable by 3-mos. vacation course and examn. Instruction also given by correspondence. Special booklet for foreigners. Comité de Patronage (Sec., 2 rue du Chapitre) will supply all necessary information gratuitously.

BORDEAUX

Recteur: R. Thamin. *Facultiés*: Droit (Doyen—L. Duguit); Méd. et Phm. (C. Sigalas); Sciences (E. Fallot); Lettres (J. Dresch). Observatoire. Marine Zool. station at Arcachon. Special courses for foreigners are under consideration, but not yet organized.

CAEN

Recteur: R. Moniez. *Facultiés*: Droit (Doyen—Pilon); Sciences (A. Bigot); Lettres (A. Barbeau). Ecole prép. de Méd. et Phm. Marine Zool. station at Luc-sur-Mer. Inst. de Droit Commercial. Inst. Technique de Normandie. Cours de Français pour les étrangers, Easter to June 30. Fee, 90 fr. Certif. d'études fr. de l'Univ. or Diplôme élem. de Fr., 30 fr. *Livret de l'étudiant étranger* and all requisite information obtainable from Sec. des Facultés, rue Pasteur.

CLERMONT-FERRAND

Recteur: Ch. Causeret. *Facultiés*: Sciences (Doyen—R. Chavastelon); Lettres (A. Audollent). Ecole de Méd. et Phm.; Inst. de Géog.; Faculté Libre de Droit; Observatoire Météor.; Station Limnologique de Besse, open Aug. and Sept.; Inst. d'Hydrologie. Publications: *Annuaire* and *L'Univ. de C.-F. et le pays d'Auvergne*, 248 pp.

DIJON

Recteur: H. Pade. *Facultïes*: Droit (Doyen—P. L. Lucas); Sciences (C. Queva); Lettres (Ch. Lambert). Ecole prép. de Méd. et Phm. Ecole de Notariat; Inst. Œnol. et Agron. Special French courses for foreigners during terms and vacations.

GRENOBLE

Recteur: F. Dumas. *Facultïes*: Droit (Doyen—L. Balleydier); Sciences (E. Gau); Lettres (S. Chabert). Ecole prép. de Méd. et Phm.; Inst. Polyt. (Electrotech. and Paper Manuf.); Inst. du Géog. Alpine; Inst. de Phonétique; Inst. de Sc. Comm.; Inst. Français de Florence. Special courses for foreigners during semesters, Nov. 3 to March 15, and March 15 to June 30, and vacation course July 1 to Oct. 31. One semester, 105 fr.; 1 yr., 150 fr.; correspondence course (academic year or vacation), 50 fr. No diploma required for matricn. for these courses. The Certif. d'études fr. may be obtained by examn. after one semester or vacation course; Dipl. des hautes études de langue et lit. fr., or Dipl. d'études sup. de phonétique fr. after 2 semesters or 1 semester *plus* vacation course; Doctorat d'Univ. (examn. fee, 100 fr.), after 4 semesters, including at least 2 full attendances (partial dispensation in exceptional cases). The vacation courses have been provided annually for many years, are highly organized, and are attended by foreigners in large numbers. Full information obtainable from " Comité de Patronage des étudiants étrangers " at the Univ.

LILLE

Recteur: G. Lyon. *Facultïes*: Droit (Doyen—C. Mouchet); Méd. et Phm. (P. Charmeil); Sciences (B. C. Damien); Lettres (G. Lefèvre). Inst. de Chimie, d'Electrotech., de Pédag., de Géog., de Papyrologie. Laboratoire de Phonétique. Lab. of Marine Biology at Portel. At Lille are also Catholic Faculties: Theol., Droit, Méd. et Ph., Lettres, Sciences; and many important tech. and professional schools. Courses for Diplôme d'études fr. and Diplome sup. pour l'enseignement de la langue et de la lit. fr. à l'étranger, 100 fr. for 2 semesters. Partial courses, 1 mo., 20 fr., etc. Vacation courses at Boulogne-sur-mer, July 16 to Aug.: supérieur (littéraire, pratique, or commerciale), moyen, and élém. Lille has established an Inst. Français in London.

LYON

Recteur: P. Joubin. *Facultïes*: Droit (Doyen—L. Josserand); Méd. et Phm. (L. Hugounenq); Sciences (C. Depéret); Lettres (L. Clédat). Ecole de Chimie Indust.; Ecole de Tannerie; Inst. Bact.; Inst. de Chimie; Inst. Agron.; Station de Biol. Marine de Tamaris-

sur-Mer ; Observatoire ; Laboratoires de Photométrie et de Photog. ; Inst. de Sc. Econ. et polit. ; Collège Oriental ; Schools of Law and of Engin. at Beirut (Syria). At Lyon are also Catholic Faculties of Theol., Droit, Lettres, Sciences ; Ecole Centrale (Tech.) ; Ecole Nat. Vét. There are a Comité de Tutelle des étudiants étrangers and a Consul Univ. for students from English-speaking countries—P. Courmont, Prof. in the Fac. of Méd.

MONTPELLIER

Recteur : A. Benoist. *Faculties* : Droit (Doyen—J. Bremond) ; Méd. (A. Mairet) ; Sciences (S. Dautheville) ; Lettres (J. Vianey). Ecole sup. de Phm ; Inst. de Biol., Botanique, Chim., Electrothérapie et Radiog., Physique, Zool. ; Jardin des Plantes ; Marine Zool. Station at Cette. Special courses (Elem. and Sup.) for foreigners during terms. Full information obtainable from Sec., Comité de Patronage at the Univ. At Montpellier are also an Ecole Nat. d'Agr. and Ecole Sup. de Commerce.

NANCY

Recteur : Ch. Adam. *Faculties* : Sciences (Doyen—O. Petit) ; Méd. (E. Meyer) ; Droit (F. Gény) ; Lettres (P. Souriau) ; Pharmacie (L. Brunz) ; Inst. Sérothérap. ; Inst. Dent. ; Inst. Chim., Electrotech. et de Méc. app., Métall. et Minier, Agr., Colonial, Géol. app., de Brasserie et de Malterie, de Laiterie ; Inst. Commercial ; Diplôme d'Ingénieur de l'Univ. Special courses for foreigners. Bureau des Renseignements de l'Univ., 13 place Carnot.

PARIS

Recteur : P. Appell. *Faculties* : Lettres (Doyen—F. Brunot) ; Sciences (M. Molliard) ; Droit (F. Larnaude) ; Méd. (H. Roger) ; Pharmacie (H. Gautier). Ecole Normale Sup. ; Inst. de Méd. coloniale, de Méd. légale, de Puériculture, de Chimie app., aérotechnique ; Inst. de Pédag. and numerous other Institutes in the Faculty of Letters. Special courses for foreigners are provided by the Faculties of Law and of Letters, and there is under the direction of the Faculty of Letters a School for the preparation of professors of French in foreign countries. The special courses are conducted in vacations as well as during the "année scolaire." No diploma is necessary for admission. Fee for 4 months' course in Faculty of Letters, 300 fr. ; partial course (3 hours a week), 75 fr. ; Law, 150 fr. Accounts of the numerous official and other Institutions of higher learning in Paris, of the Libraries, Laboratories, Museums, etc., and of the Associations organized for the benefit of students are included in the *Livret de l'Etudiant*, issued by the Bureau des Renseignements at the Sorbonne.

POITIERS

Recteur: L. Pineau. *Facultiés*: Droit (Doyen—G. Barilleau); Sciences (J. Welsch); Lettres (H. Carré). Ecole prép. de Méd. et Phm.; Lab. d'analyses agr.; special practical courses, open to candidates without diploma, in Commerce, Industrial Electricity, Industrial Chemistry, and Agr. Special courses for foreigners Tuesday and Friday evenings. Special Certif. d'études littéraires for foreigners (examn. fee, 20 fr.). Vacation courses at Tours. Comité de Patronage assists foreigners in arranging for board and lodging; President—H. Carré, Dean of the Faculty. Illustrated booklet in French and English.

RENNES

Recteur: H. Gérard-Varet. *Facultiés*: Droit (Doyen—M. Turgeon); Sciences (G. Moreau); Lettres (G. Dottin). Ecole de plein exercice de Méd. et Phm. Special French courses for foreigners during terms and, at St. Malo, vacation courses. At Rennes is an Ecole Nat. d'Agr.

STRASBOURG

Recteur: S. Charléty. *Facultiés*: Theol. Cath. (Doyen—Abbé Lang); Theol. Prot. (Ehrhard); Droit (Beudant); Méd. (G. Weiss); Sciences (Bataillon); Lettres (Pfister); Pharmacie (Jadin). Observatoire; Inst. de Chimie et de Physique. Special courses of the Inst. d'études françaises modernes, Nov. 1 to Feb. 28 and March 1 to June 30. Vacation courses in French and in German, beginning July 1.

TOULOUSE

Recteur: J. Cavalier. *Facultiés*: Droit (Doyen—M. Hauriou); Méd. et Phm. (E. Abelous); Sciences (P. Sabatier); Lettres (H. Guy). Inst. de Chimie, Electrotech. et de Méc. app., Agr., d'études méridionales; Observatoire; Stations d'Hydrobiologie et de Pisciculture, Agron., d'essais de sémences et de path. végétale, Hydrol.; Union of French and Spanish students of the French Inst. of Madrid; Inst. Normal d'études françaises (conferring Diplôme de professeur de français; for teachers in foreign countries). At Toulouse is also an Ecole Nat. de Méd. Vét. Vacation courses at Burgos (Spain), including French for foreigners and Spanish for French and others. The Inst. Français organizes each year in important towns in Spain series of conferences attended by distinguished French professors of various branches of Science. Bureau des Renseignements, 4 rue de l'Université.

HOLLAND

Universities at Amsterdam, Groningen, Leyden, Utrecht. Technical High School at Delft.

LEIDEN

Rector Magnificus: Prof. Dr. R. P. van Calcar. *Secy. of Senate*—Dr. C. Snouck Hurgronje. Secy., *Committee for Foreign Students*—Dr. J. J. L. Duyvendak. *Deans of Faculties*: Theol.—Dr. H. Windisch; Law—E. M. Meyers; Med.—Dr. N. Ph. Tendeloo; Sc.—Dr. L. van Itallie; Letters—G. J. P. J. Bolland.

UNDERGRADUATE STUDIES.* (*a*) In all faculties. (*b*) Fee of f. 30 for one course of lectures or laboratory, f. 60 for 2, f. 200 for any and all lectures. (*c*) No. (*d*) Holders of a degree of Bachelor, Master, or Doctor in the Faculty of Arts of any Univ. of the U.K., or Laval, McGill, Toronto, Adelaide, Melbourne, Sydney, N.Z., Cape Town, Allahabad, Bombay, Calcutta, Madras, or the Punjab, are exempted from examn. for admission to Dutch Univs. Other exemptions may be granted on application in individual cases by the Minister of Educn. on advice of a Faculty and the Senate.

ADVANCED STUDY AND RESEARCH.* (*a*) In all Faculties. (*b*) They can qualify for the Doctorate in any Faculty. Exemption from the various examns. may be granted on application by the Minister of Educn. in individual cases on the advice of the Faculty and Senate concerned.

NORWAY

The only Univ. is Det Kongelige Frederiks Universitet at Kristiania, where also is a Theological College. Other institutions of interest to students are the Geo-physical Inst., Bergen, and Biological Inst., Dröbak (July and Aug.). The Agric. College, Aas, and Technical High School, Trondhjem, are not at present available for foreign students. Student Associations to which foreigners are admitted exist at Kristiania, Trondhjem, and Aas. Information regarding conditions of study in Norway can be obtained from Studie-oplysningskontoret, Universitetet, Kristiania.

KRISTIANIA

Rector: Prof. Axel Holst, M.D. *Treasr.*—J. Theiste. *Secy.*—H. C. Wölner. *Deans of Faculties*: Theol.—S. Michelet; Science—C. Störmer; Juridical—J. Skeie; Letters—Anathon Aall.

ADMISSION AS AN UNDERGRADUATE. The Collegium (Rector and Deans of Faculties) can admit a foreigner who has passed an examn.

* v. p. 504.

corresponding to the " Artium " (the ordinary entrance examn. for Norse students), which entitles him to admission into the Univs. of his own country, provided that he produces good references as to character.

EXEMPTION FROM UNIVERSITY PREPARATORY EXAMNS., in consideration of having passed corresponding examns. in a foreign country, may be granted by the King on the recommendation of the Collegium.

RESIDENCE. There are no facilities for boarding students in the colleges. Cost of board and lodging, 200 to 250 kroner a month.

SPAIN

Universities at Madrid, Barcelona, Granada, Murcia, Oviedo, Salamanca, Santiago, Seville, Valencia, Valladolid, Zaragoza. Madrid has also Schools of Fine Art, of Agronomic, Civil, Mining, and Forest Engineering; Madrid and Barcelona have Schools of Industrial Engineering and of Architecture; Barcelona, a School of Agriculture (advanced); Cadiz, a Faculty of Medicine; and Madrid, Cordoba, Leon, Santiago, and Zaragoza, Veterinary Schools.

MADRID: UNIVERSIDAD CENTRAL

Rector: Exmo. Sr. Don José Rodriguez Carracido. *Vice-Rector*: Exmo. Sr. Don Tomás Montejo y Rica; Catedrático-Secretario: Don Fr. de Castro y Pascual. *Deans of Faculties*: Filosofia y Letras—Exmo. Sr. Don E. Tormo y Monzo; Ciencias—Ilmo. Sr. Don L. O. de Toledo y Zulueta; Derecho—Ilmo. Sr. Don R. de Ureña y Smenjaud; Med.—Exmo. Sr. Don S. Recasens y Girol; Farmacia—Ilmo. Sr. Don B. Lázaro e Ibiza.

UNDERGRADUATE STUDIES.* (*a*) In all Faculties. (*b*) The Spanish " Bachiller "-ship (marking the completion of a course of secondary education; similar to the French Baccalauréat) or its equivalent.

ADVANCED STUDY AND RESEARCH.* (*a*) In all Faculties. (*b*) The Doctorate, the official course for which covers 1 yr.

VACATION COURSES FOR FOREIGNERS in Madrid are organized by the Centro de Estudios Históricos (Almagro, 26, hotel), an institution created by the Junta para Ampliación de Estudios e Investigaciones Cientificas. In 1921 (the 10th yr.) the entire course will be from July 9 to Aug. 20, the lectures of the first 4 weeks being devoted to Spanish Lang., Phonetics, and Lit., those of the last 2 weeks to Spanish Art, History, Geog., Pedagogy, and Contemporary Politics. Special courses (July 11 to Aug. 6) for advanced students in Phonetics, History of Drama, and Contemporary Spanish Literature. Registration for entire course, 150 pesetas. Living expenses in second-class hotels, 8 to 20 pesetas a day.

* v. p. 504.

SWEDEN

Universities at Lund and Upsala. At Stockholm are a Handelshögskola (for Higher Commercial Studies), the Karolinska Mediko Kirurgiska Institutet, a Högskola with faculties of Science, Letters, and Law, and Schools of Forestry and Technology; at Alnarp an Agricultural College, and at Göteborg a Högskola with Faculty of Letters.

LUND

Rector: Prof. Johan C. W. Thyrén. *Deans of Faculties*: Theol.—Sven Herner; Laws—Emil F. K. Sommarin; Med. Sc.—K. A. Petrén; Arts—F. C. E. Walberg; Sc.—C. V. L. Charlier. *Heads of Departments*: Anat.—I. Broman; Archæology—M. P. Nilsson (Class. A.), S. O. H. Rydbeck (Scand. A.); Astron.—C. V. L. Charlier; Bot.—Svante Murbeck; Chem.—Lennart Smith; Fine Arts—E. H. G. Wrangel; Folklore—C. W. von Sydow; Forensic Med.—P. G. Einar Sjövall; Genetics—N. H. Nilsson-Ehle; Geog.—H. M. O. Nelson; Geol.—K. A. A. Grönwall; Path.—M. J. C. A. Forssman; Pharmacol.—C. E. Overton; Physics—K. M. G. Siegbahn; Physiol.—T. L. Thunberg; Psychol.—P. A. S. Herrlin; Zool.—H. T. S. Wallengren.

Lectures and courses in general are open to all comers whether matriculated or not, but degrees are not as a rule conferred on foreign students. British students are welcome to visit the Univ. for studying, and the professors would no doubt give certificates as to the courses pursued, but applications for admission to examns. qualifying for degrees would probably not be entertained.

SWITZERLAND

Universities at Basel, Bern, Fribourg, Geneva Lausanne, Neuchâtel, Zürich. At Zürich is also a Federal School of Technology. All these institutions have combined with the Assocn. Nat. des Universitaires Suisses to establish in Dec. 1920 an "Office Central Universitaire Suisse" at Berne, Spitalgasse, 30 II. The Secretary will give intending students information as to conditions of admission, examination, fees, cost of living, students' organizations, etc.

BERN

Direktor des Unterrichtswesens des Kantons Bern: Regierungsrat Leo Merz. *Rektor* der Universität: Prof. Dr. Otto Schulthess. *Deans of Faculties*: Evang.-theol.—Dr. Karl Marti; Kath.-theol.—Dr. Philipp Woker; Jurist.—Dr. Max Gmür; Med.—Dr. Fritz de Quervain; Vet.-Med.—Dr. O. Rubeli; Philos.—Dr. P. Gruner.

UNDERGRADUATE STUDIES.* (*a*) In all faculties. (*b*) Generally a "maturitätszeugnis." (*c*) Yes.

ADVANCED STUDY AND RESEARCH.* (*a*) In all, especially Natural Sciences and Med.

* v. p. 504.

GENÈVE

Recteur: G. Fulliquet. *Doyens des Facultés*: Sciences—H. Fehr; Let.—V. Martin; Sc. Econ. et Soc.—H. Toendury; Droit—P. Moriaud; Theol.—E. Choisy; Méd.—H. Cristiani. Inst. des Hautes Etudes Commerciales; Inst. Dentaire.

UNDERGRADUATE STUDIES.* (*a*) In all. (*b*) Certif. de maturité. (*c*) Yes, as regards Oxford, Camb., and London, but a certif. of having passed in Latin is required for admission to courses with a view to the Lic. en Droit.

ADVANCED STUDY AND RESEARCH.* (*a*) In all. (*b*) Licence, Doctorat, Diplôme.

Holiday courses in French for foreigners. Full information obtainable from Comité de Patronage at the Univ. Booklet, *Geneva, an Educational Centre*, issued by the Assocn. of the interests of Geneva, 3 place des Bergues.

ZURICH

Rector: Prof. Dr. Rudolf Fueter. *Deans of Faculties*: Theol.—Dr. A. Meyer; Law—Dr. E. Grossmann; Med.—Dr. B. Block; Vet. Sc.—Dr. O. Burgi; Philos.—Dr. J. Zemp; Sciences—Dr. H. Wehrli.

UNDERGRADUATE STUDIES.* (*a*) In all except the Faculty of Med.

ADVANCED STUDY AND RESEARCH.* (*a*) In the Faculties of Theol., Law, Philos., and Sc.; also on certain conditions, Med. (*b*) LL.D., Ph.D., and the so-called State examns. for Teachers of High Schools. (*c*) Two semesters (= one year) at least.

COURSES FOR FOREIGNERS in the German Lang. and Lit. Information regarding these and other matters is obtainable from the Secretary to the Univ. Cost of board and lodging about 250 to 350 fr. a month.

UNITED STATES OF AMERICA

The Univs. and degree-granting Colleges in the United States are so numerous and of so many diverse types that no attempt has been made to include any account of them. Ample facilities exist, however, for students desiring to inform themselves on the subject. In the United Kingdom reference may be made to the American University Union in Europe, British Division, 50 Russell Sq.; on the continent of Europe to the headquarters of the Union, 1 rue de Fleurus, Paris. In Rome there is an American Academy at Porta San Pancrazio 29. In Belgium the Fondation Universitaire which administers numerous scholarships tenable in American institutions of higher learning has its office at 74 rue de Namur, Bruxelles. In America reference may be made to the Secretary to the Board of Trustees of the American University Union, Prof. J. W. Cunliffe, Columbia Univ., New York City, or to the

* v. p. 504.

Institute of International Education, 419 West 117th St., New York. A recent Australian view of American Univ. life and organization is given in *The American University* by E. R. Holme of the Univ. of Sydney (Angus and Robertson, Ltd., Sydney, 1920, 7s. 6d.).

Below is given a list of 137 institutions approved by the Association of American Univs. This list has been adopted by most of the Univs. of the U.K. for the purpose of admission of graduates with a view to qualifying for the Ph.D. degree (v. p. 10).

Allegheny College, Meadville, Pa.; ‡Amherst College, Amherst, Mass.; †Barnard College, New York, N.Y.; Bates College, Lewiston, Me.; Beloit College, Beloit, Wis.; Boston University, Boston, Mass.; ‡Bowdoin College, Brunswick, Me; ‡Brooklyn Polytechnic Institute, Brooklyn, N.Y.; Brown University, Providence, R.I.; Bryn Mawr College, Bryn Mawr, Pa.; Carleton College, Northfield, Minn.; ‡Case School of Applied Science, Cleveland, Ohio; *Catholic University of America, Washington, D.C.; ‡Central University of Kentucky, Danville, Ky.; Clark College, Worcester, Mass.; ‡Clarkson School of Technology, Potsdam, N.Y.; *Clark University, Worcester, Mass.; Coe College, Cedar Rapids, Iowa; Colby College, Waterville, Me.; ‡Colgate University, Hamilton, N.Y.; ‡ †College of the City of New York, New York, N.Y.; †College of St. Catherine, St. Paul, Min.; § †College of St. Elizabeth, Convent Station, N.J.; Colorado College, Colorado Springs, Colo.; *Columbia University, New York, N.Y.; Cornell College, Mt. Vernon, Iowa; *Cornell University, Ithaca, N.Y.; Dartmouth College, Hanover, N.H.; De Pauw University, Greencastle, Ind.; Dickinson College, Carlisle, Pa.; Drake University, Des Moines, Iowa; Drury College, Springfield, Mo.; Earlham College, Richmond, Ind.; §Elmira College, Elmira, N.Y.; ‡Fordham University, Fordham, N.Y.; Franklin College, Franklin, Ind.; Goucher College, Baltimore, Md.; Grinnell College, Grinnell, Iowa; ‡Hamilton College, Clinton, N.Y.; *Harvard University, Cambridge, Mass.; ‡Haverford College, Haverford, Pa.; Hobart College, Geneva, N.Y.; *Indiana University, Bloomington, Ind.; Iowa State College, Ames., Iowa; *Johns Hopkins University, Baltimore, Md.; ‡Kenyon College, Gambier, Ohio; Knox College, Galesburg, Ill.; ‡Lafayette College, Easton, Pa.; § †Lake Erie College, Painesville, Ohio; Lake Forest College, Lake Forest, Ill.; Lawrence College, Appleton, Wis.; Lehigh University, South Bethlehem, Pa.; *Leland Stanford Jr. University, Stanford University, Cal.; †Macalester College, St. Paul, Minn.; Marietta College, Marietta, Ohio; †Massachusetts Agricultural College, Amherst, Mass.; Massachusetts Institute of Technology, Boston, Mass.; Miami University, Oxford, Ohio; Middlebury College, Middlebury, Vt.; § †Mills College, Oakland, Cal.; § †Milwaukee-Downer College, Milwaukee, Wis.; Mount Holyoke College, South Hadley, Mass.; †Municipal University of Akron, Akron, Ohio; New York University, New York City; *Northwestern Univer-

* Institutions starred are members of the Association of American Universities.

† Added at the meeting of the Association in November of 1917.

‡ For men only. § For women only.

sity, Evanston, Ill.; Oberlin College, Oberlin, Ohio; Ohio State University, Columbus, Ohio; Ohio Wesleyan University, Delaware, Ohio; Pennsylvania State College, State College, Pa.; Pomona College, Claremont, Cal.; *Princeton University, Princeton, N.J.; Purdue University, Lafayette, Ind.; Radcliffe College, Cambridge, Mass.; § †Randolph-Macon Women's College, Lynchburg, Va.; Reed College, Portland, Oregon; ‡Rensselaer Polytechnic Institute, Troy, N.Y.; Ripon College, Ripon, Wis.; § †Rockford College, Rockford, Ill.; ‡Rose Polytechnic Institute, Terre Haute, Ind.; ‡Rutgers College. New Brunswick, N.J.; Smith College, Northampton, Mass.; State College of Washington, Pullman, Wash.; *State University of Iowa, Iowa City, Iowa; ‡Stevens Institute of Technology, Hoboken, N.J.; Swarthmore College, Swarthmore, Pa.; Syracuse University, Syracuse, N.Y.; Trinity College, Durham, N.C.; ‡Trinity College, Hartford, Conn.; †Trinity College, Washington, D.C.; Tufts College, Medford, Mass.; Tulane University, New Orleans, La.; ‡Union University, Schenectady, N.Y.; †University of Alabama, University, Ala.; *University of California, Berkeley, Cal.; *University of Chicago, Chicago, Ill.; University of Cincinatti, Cincinatti, Ohio; University of Colorado, Boulder, Colo.; ‡University of Georgia, Athens, Ga.; *University of Illinois, Urbana, Ill.; *University of Kansas, Lawrence, Kan.; University of Maine, Orono, Me.; *University of Michigan, Ann Arbor, Mich.; *University of Minnesota, Minneapolis, Minn.; *University of Missouri, Columbia, Mo.; *University of Nebraska, Lincoln, Neb.; University of North Carolina, Chapel Hill, N.C.; University of North Dakota, University, N.D.; †University of Oklahoma, Norman, Okla.; University of Oregon, Eugene, Ore.; *University of Pennsylvania, Philadelphia, Pa.; University of Pittsburg, Pittsburg, Pa.; University of Rochester, Rochester, N.Y.; University of South Dakota, Vermillion, S.D.; ‡University of the South, Sewanee, Tenn.; University of Tennessee, Knoxville, Tenn.; University of Texas, Austin, Texas; University of Vermont, Burlington, Vt.; ‡ *University of Virginia, Charlottesville, Va.; University of Washington, Seattle, Wash.; †University of West Virginia, Morgantown, W.Va.; *University of Wisconsin, Madison, Wis.; University of Wooster, Ohio; Vanderbilt University, Nashville, Tenn.; §Vassar College, Poughkeepsie, N.Y.; ‡Wabash College, Crawfordsville, Ind.; †Washburn College, Topeka, Kan.; ‡Washington and Jefferson College, Washington, Pa.; ‡ †Washington and Lee University, Lexington, Va.; Washington University, St. Louis, Mo.; §Wellesley College, Wellesley, Mass.; §Wells College, Aurora, N.Y.; ‡Wesleyan University, Middletown, Conn.; Western Reserve University, Cleveland, Ohio; †Whitman College, Walla Walla, Wash.; ‡William Jewell College, Liberty, Mo.; ‡Williams College, Williamstown, Mass.; ‡Worcester Polytechnic Institute, Worcester, Mass.; *Yale University, New Haven, Conn.

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‡ For men only. § For women only.

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