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ARABIC THOUGHT
AND ITS PLACE IN HISTORY

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BY

DE LACY O'LEARY, D.D.

Lecturer in Aramaic and Syriac, Bristol University

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FOREWORD

History traces the evolution of the social structure in which the community exists to-day. There are three chief factors at work in this evolution; racial descent, culture drift, and transmission of language: the first of these physiological and not necessarily connected with the other two, whilst those two are not always associated with each other. In the evolution of the social structure the factor of first importance is the transmission of culture, which is not a matter of heredity but due to contact, for culture is learned and reproduced by imitation and not inherited. Culture must be taken in the widest sense to include political, social, and legal institutions, the arts and crafts, religion, and the various forms of intellectual life which show their presence in literature, philosophy, and otherwise, all more or less connected, and all having the common characteristic that they cannot be passed on by physical descent but must be learned in after life. But race, culture, and language resemble one another in so far as it is true that all are multiplex and perpetually interwoven, so that in each the lines of transmission seem rather like a tangled skein than an ordered pattern; results proceed from a conflicting group of causes amongst which it is often difficult to apportion the relative influences.

The culture of modern Europe derives from that of the Roman Empire, itself the multiple resultant of many forces, amongst which the intellectual life of Hellenism was most effective, but worked into a coherent system by the wonderful power of organization, which was one of the most salient characteristics of that Empire. The whole cultural life of medieval Europe shows this Hellenistic-Roman culture passed

on, developed, and modified by circumstances. As the Empire fell to pieces the body of culture became subject to varying conditions in different localities, of which the divergence between the Greek-speaking East and the Latin-speaking West is the most striking example. The introduction of Muslim influence through Spain is the one instance in which we seem to get an alien culture entering into this Roman tradition and exercising a disturbing influence. In fact, this Muslim culture was at bottom essentially a part of the Hellenistic-Roman material, even the theology of Islam being formulated and developed from Hellenistic sources, but Islam had so long lived apart from Christendom and its development had taken place in surroundings so different that it seems a strange and alien thing. Its greatest power lay in the fact that it presented the old material in an entirely fresh form.

It is the effort of the following pages to trace the transmission of Hellenistic thought through the medium of Muslim philosophers and Jewish thinkers who lived in Muslim surroundings, to show how this thought, modified as it passed through a period of development in the Muslim community and itself modifying Islamic ideas, was brought to bear upon the culture of mediaeval Latin Christendom. So greatly had it altered in external form during the centuries of its life apart, that it seemed a new type of intellectual life and became a disturbing factor which diverted Christian philosophy into new lines and tended to disintegrate the traditional theology of the Church, directly leading up to the Renaissance which gave the death-blow to mediaeval culture: so little had it altered in real substance that it used the same

text-books and treated very much the same problems already current in the earlier scholasticism which had developed independently in Latin Christendom. It will be our effort so to trace the history of mediaeval Muslim thought as to show the elements which it had in common with Christian teaching and to account for the points of divergence.

De L. O'L.

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CHAPTER I

THE SYRIAC VERSION OF HELLENISM

The subject proposed in the following pages is the history of the cultural transmission by which Greek philosophy and science were passed from Hellenistic surroundings to the Syriac speaking community, thence to the Arabic speaking world of Islam, and so finally to the Latin Schoolmen of Western Europe. That such a transmission did take place is known even to the beginner in mediaeval history, but how it happened, and the influences which promoted it, and the modifications which took place *en route*, appear to be less generally known, and it does not seem that the details, scattered through works of very diverse types, are easily accessible to the English reader. Many historians seem content to give only a casual reference to its course, sometimes even with strange chronological confusions which show that the sources used are still the mediæval writers who had very imperfect information about the development of intellectual life amongst the Muslims. Following mediæval usage we sometimes find the Arabic writers referred to as "Arabs" or "Moors," although in fact there was only one philosopher of **any** importance who was an Arab by race, and com-

paratively little is known about his work. These writers belonged to an Arabic speaking community, but very few of them were actually Arabs.

After the later Hellenistic development Greek culture spread outward into the oriental fringe of people who used Syriac, Coptic, Aramaic, or Persian as their vernacular speech, and in these alien surroundings it took a somewhat narrower development and even what we may describe as a provincial tone. There is no question of race in this. Culture is not inherited as a part of the physiological heritage transmitted from parent to child; it is learned by contact due to intercourse, imitation, education, and such like things, and such contact between social groups as well as between individuals is much helped by the use of a common language and hindered by difference of language. As soon as Hellenism overflowed into the vernacular speaking communities outside the Greek speaking world it began to suffer some modification. It so happened also that these vernacular speaking communities wanted to be cut off from close contact with the Greek world because very bitter theological divisions had arisen and had produced feelings of great hostility on the part of those who were officially described as heretics against the state church in the Byzantine Empire.

In this present chapter we have to consider three points; in the first place the particular stage of development reached by Greek thought at the time when these divisions took place; secondly the cause

of these divisions **and** their tendencies; **and** thirdly the particular line of development taken by Hellenistic culture in its oriental atmosphere.

First stands the question of the stage of development reached by Hellenism, and we may test this by its intellectual life as represented by science **and** philosophy, at the time when the oriental offshoot shows a definite line of separation. English education, largely dominated by the principles learned at the renaissance, is inclined to treat philosophy as coming to an end with Aristotle and beginning again with Descartes after a long blank during which there lived and worked some degenerate descendants of the ancients who hardly need serious consideration. But this position violates the primary canon of history which postulates that all life is continuous, the life of the social community as well as the physical life of an organic body : and life must be a perpetual series of causes and results, so that each event can only be explained by the cause which went before, and can only be fully understood in the light of the result which follows after. What we call the "middle ages" had an important place in the evolution of our own cultural condition, and owed much to the transmitted culture which came round from ancient Hellenism through Syriac, Arabic, and Hebrew media. But this culture came as a living thing with an unbroken and continuous development from what we call the "classic" **age**. As **the** philosophy of the great classic schools passes down

to these later periods it shows great modifications, but this alteration is itself a proof of life. Philosophy, like religion, in so far as it has a real vitality, must change and adapt itself to altered conditions and new requirements: it can remain pure and true to its past only in so far as its life is artificial and unreal, lived in an academic atmosphere far removed from the life of the community at large. In such an unnatural atmosphere no doubt, it is possible for a religion or a philosophy to live perfectly pure and uncorrupt, but it is certainly not an ideal life: in real life there are bound to be introduced many unworthy elements and some which can only be described as actually corrupt. So it is inevitable that as a religion or a philosophy lives and really fulfils its proper functions it has to pass through many changes. Of course the same holds good for all other forms of culture : it may be true that a country is happy if it has no history, but it is the placid happiness of vegetable life, not the enjoyment of the higher functions of rational being.

In considering the transmission of Greek philosophy to the Arabs we see that philosophy still as a living force, adapting itself to changed conditions but without a break in the continuity of its life. It was not, as now, an academic study sought only by a group of specialists, but a living influence which guided men in their ideas about the universe in which they lived and dominated all theology, law, and social ideas. For many centuries it pervaded the

atmosphere in which Western Asia was educated and in which it lived. Men became Christians, for a time the new religious interest filled their minds, but later on it was inevitable that philosophy should re-assert its power, and then Christian doctrine had to be re-cast to conform to it: the descendants of these people became Muslims and then again, after an interval, religion had to conform itself to current philosophy. We have no such dominant philosophical system in force to-day, but we have a certain mass of scientific facts and theories which form an intellectual background to modern European life and the defenders of traditional religion find it necessary to adjust their teaching to the principles implied in those facts and theories.

But the important point is that then Christian teachers began to put themselves into touch with current philosophy, and so when the Muslims later on did the same, they had to reckon with philosophy as they found it actually living in their own days: they did not become Platonists or Aristotelians in the sense in which we should understand the terms. The current philosophy had changed from the older standards, not because the degenerate people of those days could not understand the pure doctrines of Plato and Aristotle, but because they took philosophy so seriously and earnestly as an explanation of the universe and of man's place in it that they were bound to re-adjust their views in the light of what they regarded as later information, and the views had altered

to adjust themselves with the course of human experience.

From Plato onwards philosophy had been very largely concerned with theories which more or less directly concerned the structure of society: it was perceived that a very large part of man's life, duties, and general welfare, was intimately concerned with his relations to the community in which he lived. But soon after the time of Aristotle the general conditions of the social order were seen to be undergoing a profound modification: great empires with highly organised administrations replaced the self-governing city states of the older period, and social life had to adjust itself to the new conditions. A man who was a citizen of the Roman Empire was a citizen in quite a different sense from that in which one was a citizen of the Athenian Republic. The Stoic philosophy, which is of this later age, already presupposes these new conditions and in course of time the other schools orientated themselves similarly. One of the first results is a tendency to eclecticism and to combination of the tenets of several schools. The new outlook, broader in its horizon, perhaps shallower in other respects, impelled men to take what was an imperialist attitude instead of a local or national one. Precisely similar changes were forced upon the Jewish religion. Hellenistic Judaism, at the beginning of the Christian era, is concerned with the human species and the race of Israel is considered chiefly as a means of bringing illumination to mankind at

large. It was this Hellenistic Judaism which culminated in St. Paul and the expansion of the Christian Church, whilst orthodox Judaism, that is to say the provincial Jewery of Palestine reverted to its racial attitude under the pressure of circumstances partly reactionary against the too rapid progress of Hellenism and partly political in character.

The old pagan religions showed many local varieties, and from these a world-wide religion could only be evolved by some speculative doctrines which reconciled their divergences. Never has a religion of any extension been formed from local cults otherwise than by the ministry of some kind of speculative theology: sometimes the fusion of cults has spontaneously produced such a theology, as was the case in the Nile valley and in Mesopotamia in early times, and when the theology was produced it brought its solvent power to bear rapidly and effectively on other surrounding cults. As many races and states were associated together in the Greek Empire which, though apparently separated into several kingdoms, yet had an intellectual coherence and a common civilization, and this was still more definitely the case when the closer federation of the Roman Empire followed, philosophy was forced more and more in the direction of speculative theology: it assumed those ethical and doctrinal functions which we generally associate with religion, the contemporary local cults concerning themselves only with ritual duties. Thus in the early centuries of the Christian

era Hellenistic philosophy was evolving a kind of religion, of a high moral tone and definitely monotheistic in doctrine. This theological philosophy was eclectic, but rested upon a basis of Platonism,

Whilst the philosophers were developing a monotheistic and moral system which they hoped to make a world religion, the Christians were attempting a similar task on somewhat different lines. The earlier converts to the Christian religion were not as a rule drawn from the educated classes and shewed a marked suspicion and dislike towards those superior persons, such as the Gnostics, or at least the pre-Marcionite Gnostics, who were disposed to patronise them. Gradually however this attitude changed and we begin to find men like Justin Martyr who had received a philosophical education and yet found it quite possible to co-ordinate contemporary science and Christian doctrine. In Rome, in 'Africa, and in Greece the Christians were a despised minority, chiefly drawn from the unlettered class, and ostentatiously ignored by the writers of the day. Like the Jew of the Ghetto they were forced to live an isolated life and thrown back upon their internal resources. But in Alexandria and, to a lesser degree in Syria, they were more in the position of the modern Jew in Anglo Saxon lands, though bitterly hated and occasionally persecuted, and were brought under the intellectual influences of the surrounding community and thus experienced a solvent force in their own ideas. When at last Christianity

appears in the ascendant it has been largely re-cast by Hellenistic influences, its theology is re-stated in philosophical terms, and thus in the guise of theology a large amount of philosophical material was transmitted to the vernacular speaking hinterland of Western Asia.

The Arabic writer Masudi informs us that Greek philosophy originally flourished at Athens, but the Emperor Augustus transferred it from Athens to Alexandria and Borne, and Theodosius afterwards closed the schools at Borne and made Alexandria the educational centre of the Greek world (Masudi: *Livre de Vavertissement*, trad. B.Carra de Vaux, Paris, 1896, p. 170). Although grotesquely expressed this statement contains an element of truth in so far as it represents Alexandria as gradually becoming the principal home of Greek philosophy. It had begun to take a leading place even in the days of the Ptolemies, and in scientific, as distinguished from purely literary work, it had assumed a position of primary importance early in the Christian era. The schools of Athens remained open until A.D. 529, but had long been out of touch with progressive scholarship. Borne also shows great philosophers, most often of oriental birth, down to a late age, but although these were given a kindly welcome and a hearing, Roman education was more interested in jurisprudence, indeed the purely Roman philosophical speculation is that embedded in Justinian's code. Antioch also had its philosophy, but this

was never of more than secondary importance.

In the course of what we may term the Alexandrian period the Platonic school had steadily taken the first place. It was indeed considerably changed from the ancient Academic standards, chiefly by the introduction of semi-mystical elements which were attributed to Pythagoras, and later by fusion with the neo-Aristotelian school. The Pythagorean elements probably can be traced ultimately to an Indian source, at least in such instances as the doctrine of the unreality of matter and phenomena which appears in Indian philosophy as *maya*, and the re-incarnation of souls which is *avatar*. The tendency of native Greek thought, as seen in Democritus and other genuinely Greek thinkers, was distinctly materialistic, but Plato apparently incorporates some alien matter, probably Indian, perhaps some Egyptian ideas as well. We know there was a transmission of oriental thought influencing Hellenism, but very little is known of the details. Certainly Plotinus and the neo-Platonists were eclectic thinkers and drew freely from oriental sources, some disguised as Pythagorean, by a long sojourn in Greek lands.

In the 3rd century A.D. we find the beginnings of what is known as neo-Platonism. A very typical passage in Gibbon's *Decline and Fall* (ch. xiii) refers to the neo-Platonists as "men of profound thought and intense application; but, by mistaking the true object of philosophy, their labours contributed much less to improve than to corrupt the human under-

standing. The knowledge that is suited to our situation and powers, the whole compass of moral, natural, and mathematical science, was neglected by the new Platonists; whilst they exhausted their strength in the verbal disputes of metaphysics, attempted to explore the secrets of the invisible world, and studied to reconcile Aristotle with Plato, on subjects of which both these philosophers were as ignorant as the rest of mankind." Although this passage is coloured by some of the peculiar prejudices of Gibbon it fairly represents a common attitude towards neo-Platonism and might equally apply to every religious movement the world has ever seen.

The neo-Platonists were the result, we may say the inevitable result, of tendencies which had been at work ever since the age of Alexander and the widening of the mental horizon and the decay of interest in the old civic life. The older philosophers had endeavoured to produce efficient citizens; but under imperialist conditions efficient citizens were not so much wanted as obedient subjects. Through all this period there are very clear indications of the new trend of thought which assumes a more theological and philanthropic character, aiming at producing good men rather than useful citizens. The speculations of Philo the Jewish Platonist give very plain indications of these new tendencies as they appeared in Alexandria. He shows the monotheistic tendency which was indeed present in the older philosophers but now begins to be more strongly emphasized as

philosophy becomes more theological in its speculations, though no doubt in his case this was largely due to the religion he professed. He expressed the doctrine of a One God, eternal, unchanging, and passionless, far removed above the world of phenomena, as the First Cause of all that exists, a philosophical monotheism which can be fitted in with the Old Testament but does not naturally proceed from it. The doctrine of an Absolute Reality as the necessary cause of all that is variable, something like the fulcrum which Archimedes needed to move the world, was **one** to which all philosophy, and especially the Platonian school, was tending. But, as causation to some extent implies change, this First Cause could not be regarded as directly creating the world, but only as the eternal source of an eternally proceeding emanation by means of which the power of the First Cause is projected so as to produce the universe and all it Contains. The essential features of this teaching are, the absolute unity of the First Cause, its absolute reality, its eternity, and its invariability, all of which necessarily removes it above the plane of things knowable to man; and the operative emanation ceaselessly issuing forth, eternal like its source, yet acting in time and space, an emanation which Philo terms the *Logos* or "Word." Although these theories are to a large extent only an expression of logical conclusions towards which the Platonists were then advancing, Philo had curiously little influence. No doubt there was a tendency to regard his teaching as mainly an

attempt to read a Platonic meaning into Jewish doctrine, and certainly the large amount of attention he devoted to exegesis of the Old Testament and to Jewish apologetics would prevent his works from receiving serious attention from non-Jewish readers. Again, although his ideas about monotheism and the nature of God were those to which Platonism was tending, they represent also a Jewish attitude which, starting from a monotheistic standpoint was then, under Hellenistic influence, making towards a supra-sensual idea of God, explaining away the anthropomorphisms of the Old Testament and postulating an emanation, the *Hochma* or "wisdom" of God as the intermediary in creation and revelation. Undoubtedly Philo, or the Philonic school of Hellenistic Judaism, was responsible for the Logos doctrine which appears in the portions of the New Testament bearing the name of St. John. He had an influence also on Jewish thought as appears in the Targums where the operative emanation which proceeds from the First Cause is no longer the "wisdom" of God but the "Word." He seems to have had no influence at all on the course of Alexandrian philosophy generally.

The tendencies which were at work in Philo were also leavening Greek thought outside Jewish circles and all schools of philosophy show a growing definiteness in their assertion of One God eternal and invariable, as the source and First Cause of the universe. It is a recognition of the principal of uniformity in nature

and of the necessity of accounting **for** the cause **of this** uniformity. The Gnostic sects, which were of philosophical origin, simply show the definite acceptance of this First Cause and, having accepted it as on a plane far removed above imperfection and variation, suggest intermediary emanations as explaining the production of an imperfect and variable universe from a primary source which is itself perfect and unchanging. The descriptive accounts of the successive emanations, each less perfect than that from which it proceeds, which ultimately produced the world in which we perceive phenomena, are different in different Gnostic systems, often crude enough and grotesque in our eyes, and frequently drawing from Christianity or Judaism or some other of the oriental religions which were then attracting the attention of the Roman world. But these details are of minor importance. All Gnostic theories bear witness to the belief that there is a First Cause, absolutely real, perfect, eternal, and far removed above this world of time and space, and that some emanation or emanations must have intervened to connect the resultant world, such as we know it, with this sublime Cause: and such belief indicates in crude form a general conviction which was getting hold of all current thought in the early centuries of the Christian era.

Complementary to this was the psychological teaching represented by the Aristotelian commentator Alexander of Aphrodisias who taught at Athens, A.D. 198-211. His extant works include commentaries

on the first book of the *Analytica Priora*, on **the** *Topica*, *Meteorology*, *de seneu*, the first five books **of the** *Metaphysics* and an abridgment of the other **books** of the *Metaphysics*, as well as treatises on the soul, etc. Over and over again his treatise on the soul and **his** commentaries are translated into Arabic, paraphrased, and made the subject of further commentaries, until it seems that his psychology is the very nucleus of all Arabic philosophy, and it is this which forms the main point of the Arabic influence on Latin scholasticism. It becomes indeed absolutely essential that we understand the Alexandrian interpretation of the Aristotelian psychology if we are to follow the oriental development of Greek science.

The first point is to understand what is to be implied in the term "soul." Plato was really a dualist in that he regards the soul as a separate entity which animates the body and compares it to a rider directing and controlling the horse he rides. But Aristotle makes a more careful analysis of psychological phenomena. In the treatise *de anima* he says "there is no need to enquire whether soul and body are one, any more than whether the wax and the imprint are one; or, in general, whether the matter of a thing is the same with that of which it is the matter." (Aristot: *de anima*. II. i. 412. b. 6.) Aristotle defines the soul as "the first actuality of a natural body having in it the capacity of life" (id. 412. b. 5), in which "first" denotes that the soul is **the primary form** by which **the substance of the body** is

actualized, and " actuality " refers to the actualizing principle by which form is given to the body which otherwise would be only a collection of separate parts each having its own form but the aggregate being without corporate unity until the soul gives it form; in this sense the soul is the realization of the body (cf. Aristot: *Metaph.* iii. 1043. a. 35). A dead body lacks this actualizing and centralizing force and is only a collection of limbs and organs, yet even so it is not an artificial collection such as a man might put together, but " a natural body having in it the capacity of life," that is to say, an organic structure designed for a soul which is the cause or reason of its existence and which alone enables the body to realize its object.

The soul contains four different faculties or powers which are not strictly to be taken as " parts " though in the passage cited above Aristotle- uses the term " parts." These are, (1) the nutritive, the power of life whereby the body performs such functions as absorbing nourishment, propagating its species, and other functions common to all living beings, whether animal or vegetable: (ii) the sensible, by which the body obtains knowledge through the medium of the special senses of sight, hearing, touch, etc., and also the " common sense " by means of which these perceptions are combined, compared, and contrasted so that general ideas are obtained which ultimately rest on the sense perceptions : (iii) the locomotive, which **prompts to** action, as desire, appetite, will, etc., also

based, though indirectly, on sense perception, being suggested by memories of senses already in action: (iv) the intellect or pure reason, which is concerned with abstract thought and is not based on sense perception. All these, embracing life in its widest application, are classed together as soul, but the last, the intellect, *nous*, or rational soul, is peculiar to man alone. It does not depend on the senses, directly or indirectly, and so, whilst the other three faculties necessarily cease to function when the bodily organs of sense cease, it does not necessarily follow that this rational soul will cease as it is apparently independent of the organ sense. This *nous* or " spirit " is reduced by Aristotle to a much more restricted range than is usual in the older philosophers and is taken to mean that which has the capacity of abstract knowledge, independent of the information due, directly or indirectly, to sense perception. It would seem, however, to be a distinct species of faculty for Aristotle says: " As regards intellect and the speculative faculty the case is not yet clear. It would seem, however, to be a distinct species of soul, and it alone is capable of separation from the body, as that which is eternal from that which is perishable. The remaining parts of the soul are, as the foregoing consideration shows, not separable in the way that some allege them to be : at the same time it is clear that they are logically distinct." (Arist. *de anima*. I I . ii. 413. b. 9). It is suggested that (i) the rational soul is of a distinct species and so presumably derived from a different

source than the other faculties of the soul, but nothing is said as to whence it is derived: (ii) it is capable of existence independently of the body, that is to say its activity does not depend on the operation of the bodily organs, but it is not stated that it does so exist; (iii) it is eternal on the ground that it can exist apart from the perishable.

The obscurity of this statement has led to a great divergence in its treatment by commentators. Theophrastus offers cautious suggestions and evidently regards the rational soul as differing only in degree of evolution from the lower forms of soul faculty. It was Alexander of Aphrodisias who opened up new fields of speculation, distinguishing between a material intellect and an active intellect. The former is a faculty of the individual soul and this it is which is the form of the body, but it means no more than the capacity for thinking and is of the same source as the other faculties of the human soul. The active intellect is not a part of the soul but is a power which enters it from outside and arouses the material intellect to activity ; it is not only different in source from the material soul, but different in character in that it is eternal and so always has been and always will be, its rational power existing quite apart from the soul in which the thinking takes place ; there is but one such substance and this must be identified with the deity who is the First Cause of all motion and activity, so that the active intellect is pictured as an emanation from the deity entering the human

soul, arousing it to the exercise of its higher functions, and then returning to its divine source. This theistic interpretation of Aristotle was strongly opposed by the commentator Themistius who considers that Alexander forces the statement of the text out of its natural meaning and draws an unwarrantable deduction from the two sentences "these differences must be present in the soul," and "this alone is immortal and eternal." It seems, however, that Alexander's interpretation played an important part in the formation of neo-Platonic theory, and it certainly is the key to the history of Muslim philosophy, and is not without its importance in the development of Christian mysticism.

The neo-Platonic school was founded by Ammonius Saccas, but really takes its definite form under *Plotinus* (d. 269 A.D.). In sketching in brief outline the leading principles of this system we shall confine ourselves to the last three books of the *Enneads* (iv-vi) as these, in the abridged form known as the "Theology of Aristotle" formed the main statement of neo-Platonic doctrine known to the Muslim world. In the teaching of Plotinus God is the Absolute, the First Potency (*Enn.* 5. 4. 1.), beyond the sphere of existence (id. 5.4.2.), and beyond reality, that is to say, all that we know as existence **and** being is inapplicable to him, and he is therefore unknowable, because on a plane which is altogether beyond our thought. He is unlimited and infinite (id. 6. 5. 9.) and consequently One, as infinity excludes

the possibility of any other than himself on the same plane of being. Yet Plotinus does not allow the numeral "one" to be applied to God as numerals are understandable and refer to the plane of existence in which we have our being, so that "one" as a mere number is not attributed to God, but rather singularity in the sense of an exclusion of all comparison or of any other than himself. As Absolute God implies a compelling necessity so that all which proceeds from him is not enforced but is necessarily so in the sense that nothing else is possible; thus, **for** example, it results from him that two sides of a triangle are greater than the third side, they are not forced into greater length, but in the nature of things must be so, and this necessary nature has its compelling source in the First Cause. Yet Plotinus will not allow us to say that God "wills" anything, for will implies a desire for what is not possessed or is not yet present (id. 5. 3. 12); will operates in time and space, but necessity has for ever proceeded from the Eternal One who does not act in time. Nor can we conceive God as knowing, conscious, or thinking, all terms which describe our mental activities in the world of variable phenomena; he is all-knowing by immediate apprehension (**ἀθρόα ἐπιβολή**) which in no way resembles the operation of thought but is super-conscious, a condition which Plotinus describes as "wakefulness" (**εγρήγορσις**), a perpetual being aware without the need of obtaining information.

Prom the true God, the eternal Absolute, proceeds

the *nous*, a term which has been variously rendered as Reason, Intellect, Intelligence, or Spirit, this last being the term which Dr. Inge regards as the best expression (Inge : *Plotinus*. ii. p. 38), and this *nous* is fairly equivalent to the Philonic and Christian *Logos*. An external emanation is necessitated in order that the First Cause may remain unchanged which would not be the case if it had once not been a source and then had become the source of emanation ; there can be no " becoming " in the First Cause. The emanation is of the same nature as its cause, but is projected into the world of phenomena. It is self-existent, eternal, and perfect, and comprehends within itself the " spirit world," the objects of abstract reason, the whole of the reality which lies behind the world of phenomena; the things perceived are only the shadows of these real ones. It perceives, not as seeking and finding, but as already possessing (id. 5. 1. 4.), and the things perceived are not separate or external but as included and apprehended by immediate intuition (id. 5. 2. 2.)

From the *nous* proceeds the *psyche*, the principle of life and motion, the world soul which is in the universe and which is shared by every living creature. It also knows, but only through the processes of reasoning, by means of separating, distributing, and combining the data obtained by sense perception, so that it corresponds in function to the " common sense " of Aristotle, whilst the *nous* shows the functions which are attributed to it by Aristotle and has the character which Alexander reads into Aristotle.

The work of Plotinus was continued by his pupil Porphyry (d. 300 A.D.) who taught at Rome, and is chiefly noteworthy as the one who completed the fusion of Platonic and Aristotelian elements in the neo-Platonic system, and especially as introducing the scientific methods of Aristotle. Plotinus had criticized adversely the Aristotelian categories (*Enn.* vi.), but Porphyry and all the later neo-Platonists returned to Aristotle. Indeed, he is best known to posterity as the author of the *Isagoge*, long current as the regular introduction to the logical *Organon* of Aristotle. Then came *Jamblichus* (d. 330), the pupil of Porphyry who used neo-Platonism as the basis of a pagan theology ; and finally Proklus (d. 485) its last great pagan adherent who was even more definitely a theologian.

Neo-Platonism was the system just coming to the fore-front when the Christians of Alexandria began to be in contact with philosophy. The first prominent Alexandrian Christian who endeavoured to reconcile philosophy and Christian theology was *Clement of Alexandria* who, like Justin Martyr, was a Platonist of the older type. Clement's *Stromateis* is a very striking work which shows the general body of Christian doctrine adapted to the theories of Platonic philosophy. It does not tamper with the traditional Christian doctrine, but it is evidently the work of one who sincerely believed that Plato had partially foreseen what the Gospels taught, and that he had used a clear and efficient terminology which was in all

respects suitable for the expression of profound truths, and so Clement uses this terminology, incidentally assuming the Platonic metaphysics, and so unconsciously modifies the contents of Christianity. If we ask whether this results in a fair presentation **of** Christian teaching we shall perhaps be inclined to admit that, in spite of modification and in view of the scientific attitude of the times it substantially **does SO** : when truths already expressed by those who have not received a scientific training are repeated by those who have and who are careful to cast their expression into logical and consistent form, some modification is inevitable. Whether the scientific assumptions and philosophy generally of Clement were correct is, of course, another matter ; modern opinion would say it was incorrect. But, so far as contemporary science went, it was obviously an honest effort. It has not been appreciated by all Clement's successors and he is one of the few Christian leaders who has been formally deprived of the honorific title of " saint " which was at one time prefixed to his name. Within the next few centuries the re-formulation of Christianity proceeded steadily until at last it appears as essentially Hellenistic, but with the Platonic element now modified by the more spiritualistic influences of neo-Platonism. Undoubtedly this was a gain for Christianity, for **when** we read the *Didache* and other early non-Hellenistic Christian material we cannot help feeling that it shows a narrower and more cramped outlook and **one far** less suited to satisfy the needs and aspirations **of**

humanity at large. It is curious to compare Glement of Alexandria with Tertullian, one of the greatest, if not the greatest, of the literary lights of Latin Christianity, but severe, puritanically rigid, and suspicious and hostile in his attitude towards philosophy which he regards as essentially pagan.

The next great leader of Alexandrian Christian thought was Origen himself a pupil of Plotinus, and one who found little difficulty in adapting contemporary philosophy to Christian doctrine, although this adaptation was by no means received with approval in all parts of the Christian community. Under Clement and Origen the catechetical instruction which was regularly given in all churches to candidates for baptism was expanded and developed on the lines of the lectures given by the philosophers in the Museum, and so a Christian school of philosophical theology was formed. This development was not regarded favourably by the older fashioned churches nor by the philosophers of the Museum, and even amongst the Alexandrian Christians there was a section which viewed it with disapproval, especially evident when the school became so prominent that it tended to overshadow the ordinary diocesan organization.

This is not the place to consider the various intrigues which ultimately compelled Origen to leave Alexandria and retire to Palestine. There, at Caesarea, he founded a school on the model of that at Alexandria. This second foundation did not attain the same

eminence as its prototype, perhaps because Origen's influence turned its activities into a direction too highly specialised in textual criticism, but it prompted a development which ultimately played an important part in the history of the Syrian church where, for some time to come, theological activity mainly centered in these schools which had their imitators amongst the Zoroastrians and the Muslims. The first such school in Syria was founded at Antioch by Malchion about 270 A.D. and deliberately copied the pattern set at Alexandria and ultimately became its rival.

About fifty years later a school was established at Nisibis, the modern Nasibin on the Mygdonius river, in the midst of a Syriac speaking community. The church had spread inland from the Mediterranean shores and had by this time many converts in the hinterland who were accustomed to use Syriac and not Greek. For the benefit of these the work at Nisibis was done in Syriac, Syriac versions were prepared of the theological works studied at Antioch, and the Greek language was taught so that the Syriac speaking Christians were brought into closer touch with the life of the Church at large.

The acquiescence of the Church in the Alexandrian philosophy had far-reaching consequences. The Church did not officially adopt the neo-Platonic philosophy in its entirety, but it had to adjust itself to an atmosphere in which the neo-Platonic system was accepted as the last word in scientific enquiry and

where the Aristotelian metaphysics and psychology were assumed as an established and unquestionable basis of knowledge. It was impossible for churchmen, educated in this atmosphere, to do otherwise than accept these principles, just as it is impossible for us to admit that the body of a saint can be in two places at once, our whole education training us to assume certain limitations of time and space, although a devout Muslim of Morocco can believe it and honours two shrines as each containing the body of the same saint who, he believes, in his life time had power of over-passing the limitations of space. The general postulates of the later Platonic and Aristotelian philosophy were firmly established in the fourth century in Alexandria and its circle, and were no more open to question than the law of gravity or the rotundity of the earth would be to us. It was known, that there were people who questioned these things, but it could only be accounted for by blind ignorance in those who had not received the benefits of an enlightened education. The Christians were no more able to dispute these principles than anyone else. They were perfectly sincere in their religion, many articles of faith which present considerable difficulty to the modern mind presented no difficulty to them ; but it was perfectly obvious that the statements of Christian doctrine must be brought into line with the current theory of philosophy, or with self evident truth as they would have termed it. It shows a strange lack of historical imagination when we talk

slightly about how Christians quarrelled over words, forgetting what these words represented and how they stood for the established conclusions of philosophy as then understood.

This comes out very plainly in the Arian controversy. Both sides agreed that Christ was the Son of God, the relation of Father and Son being, of course, not that of human parentage but rather by way of emanation : both agreed that Christ was God, as the emanation necessarily had the same nature as the source from which it proceeded : both agreed that the Son proceeded from the Father in eternity and before the worlds were created, the Son or Logos being the intermediary of creation. But some, and these, it would seem, mainly associated with the school of Antioch, so spoke of the Son proceeding from the Father as an event which had taken place far before all time in the remoteness of eternity, it is true, but so that there was when the Father had not yet begotten the Son, for, they argued, the Father must have preceded the Son as the cause precedes the effect, and so the Son was, as it were, less eternal than the Father. At once the Alexandrians corrected them. To begin with there are no degrees in eternity : but, most serious error of all, this idea made God liable to variation, at one period of eternity he had been alone, and then he had become a father : philosophy taught that the First Cause, the True God, is liable to no change, if he is Father now, he must have been so from all eternity: we must understand the Son as

the Logos for ever eternally issuing forth from the Father as source. The actual merits of the controversy do not at present concern us : we simply notice the fact that the current Greek philosophy entirely dominated the theology of the Church and it was imperative for that theology to be expressed in terms which fitted in with the philosophy. The result of the Arian struggle was that the Eastern church came to recognise the Alexandrian philosophy as the exponent of orthodoxy, and in this it was followed by the greater part of the Western Church, though the West Goths still remained attached to the Arian views which they had learned from their first teachers.

By the fifth century Arian doctrine had been completely eliminated from the state church and Alexandrian philosophy which had been the chief means of bringing about this result, was dominant, although there are indications that it was viewed with suspicion in some quarters. Amongst the controversies which took place in the post-Nicene age the most prominent are those which concerned the person of the incarnate Christ, and these are largely questions of psychology. It was generally admitted that man has a *psyche* or animal soul which he shares with the rest of the sentient creatures, and in addition to this a spirit or rational soul which, under the influence of the 3neo-Platonists or of Alexander of Aphrodisias, was regarded as an emanation from the creative spirit, the Logos or " Agent Intellect," a belief which Christian theologians supported by the statement in

Genesis that God breathed into man the breath of life and so man became a living soul. In fact St. Paul had already distinguished between the two elements, the animal soul and the immortal spirit, in accordance with the psychology which had been developed in his time. But Christian theology supposed that in Christ was also present the eternal Logos which had been the creative Spirit and of which the spirit or rational soul was itself an emanation. What, therefore, would be the relation between the Logos and its own emanation when they came together in the same person? If the Alexandrian philosophy and the Christian religion were both true the problem was capable of reasonable solution: if its only answer was a manifest absurdity then either the psychology or Christianity was in error, and then, as always, it was assumed that contemporary science was sure and religion had to be tested by its standard. To this particular problem two solutions were proposed. The one, especially maintained at Alexandria, was that the Logos and the rational soul or spirit, being in the relation of source and emanation, necessarily fused together when simultaneously present in the same body, the point being of course that the Logos was the agent of creation, the True God not acting therein as it was an activity in time, but through the intermediary of the Logos, whilst the animal soul dispersed through creation was ultimately **derived from** the Logos, but the spirit was directly proceeding from it, all of which represents the

philosophical theory formulated by Alexander of Aphrodisias and the neo-Platonists and then accepted as unassailable. The other solution, which found its chief advocates at Antioch, laid stress on the completeness of the humanity of Christ so that the body, animal soul, and spirit were necessarily complete in the humanity and the Logos dwelt in the human frame without subtracting the spirit which was one of the essentials of humanity, and so there could have been no fusion because this would have implied the return of the spirit to its source and consequently its subtraction from the humanity of Christ. This solution, it will be observed, postulates the same psychology as the other, and whichever view prevailed the Church would be irrevocably committed to the current psychology by this definition of its doctrine.

Both solutions offered perfectly logical deductions from the postulates assumed and it only wanted the advocates of one or the other to over-state the case so as to transgress against the teachings of philosophy or of traditional religion. The first false move came from Antioch. Laying great stress on the completeness of the humanity of Christ so that body, soul, and spirit were necessarily connected in the human frame, the view was so expressed as to describe the Virgin Mary as the mother of the human Christ, body, soul, and spirit alone, which implied, or seemed to imply, that at birth Christ was man only and afterwards became God by the Logos entering into the human

body, a conclusion possibly not intended by those who expressed their views but pressed by their opponents. This had been the teaching of Diodorus and of Theodore of Mopseustia both associated with the school of Antioch, and defended in its extremer form by Nestorius, a monk of Antioch, who was made bishop of Constantinople in A.D. 428. Violent controversies ensued which resulted in a general council at Ephesus in 431, where the Alexandrian party succeeded in getting Nestorius and his followers condemned as heretics. Two years later the Nestorians, absolutely confident that their opponents were utterly illogical in supposing that the rational soul and the Logos in Christ were fused or united together, repudiated the official church and organised themselves as the Church which had no part with the heretics of Ephesus. The state Church, however, had the weight of the temporal authority behind it, and the heavy hand of persecution fell severely upon the Nestorians. In Antioch and Greek speaking Syria persecution did its work effectually and the Nestorians were reduced to the position of a fugitive sect, in Egypt, as might be expected, they had no footing, and the westerns as usual agreed with the dominant state church: only amongst the Syriac speaking Christians the Nestorian teaching had a free course, and that section for the most part adhered to it.

Some time before this the school at Nisibis had been closed, or rather removed to Edessa. In A.D. 363

the city of Nisibis had been handed over to the Persians as one of the conditions of the peace which closed the unfortunate war commenced by Julian, and the members of the school, retiring into Christian territory, had re-assembled at Edessa, where a school was opened in 373, and thus Edessa in a Syriac speaking district but within the Byzantine Empire, became the centre of the vernacular speaking Syriac church.

At the Nestorian schism the school at Edessa was the rallying place of those who did not accept the decisions of Ephesus, but in 439 it was closed by the Emperor Zeno on account of its strong Nestorian character, and the ejected members led by Barsuma, a pupil of Ibas (d. 457), who had been the great luminary of Edessa, migrated across the Persian border. Barsuma was able to persuade the Persian king Piruz that the orthodox, that is to say the state, Church was pro-Greek, but that the Nestorians were entirely alienated from the Byzantine Empire by the harsh treatment they had received. On this understanding they were favourably received and remained loyal to the Persian monarchy in the subsequent wars with the Empire. The Nestorians re-opened the school at Nisibis and this became the focus of Nestorian activity by which an orientalised phase of Christianity was produced. Gradually the Nestorian missionaries spread through all central Asia and down into Arabia so that the races outside the Greek Empire came to know Christianity first in a Nestorian

form. It seems probable that Muhammad had contact with Nestorian teachers (Hirschfeld: *New Researches*, p. 23), and certainly Nestorian monks and missionaries had much intercourse with the earlier Muslims. These Nestorians were not only anxious to teach Christianity but very naturally attached the utmost importance to their own explanations of the person of Christ. This could only be made clear by the help of theories drawn from Greek philosophy, and so every Nestorian missionary became to some extent a propagandist of that philosophy: they translated into Syriac not only the great theologians such as Theodore of Mopseustia who explained their views, but also Greek authorities such as Aristotle and his commentators because some knowledge of these was necessary to understand the theology. Much of this work of translation shows a real desire to explain their teaching, but it shows also a strong resentment against the Emperor and his state church; as that church used the Greek language in its liturgy and teaching, the Nestorians were anxious to discard Greek, they celebrated the sacraments only in Syriac and set themselves to promote a distinctly native theology and philosophy by means of translated material and Syriac commentaries. These became the medium by which Aristotle and the neo-Platonic commentators were transmitted to Asia outside the Empire, and so later on as we shall see it was a group of Nestorian translators who, by making Arabic versions from the Syriac, first brought Hellenistic philos-

ophy to the Arabic world. But there was also a weak side, for the Nestorian Church, cut off from the wider life of Hellenism, became distinctly provincial. Its philosophy plays round and round that prevalent at the schism, it spreads this philosophy to new countries, it produces an extensive educational system, and elaborates its material, but it shows no development. If we regard the main test of educational efficiency as being in its research product and not simply the promulgation of material already attained, then Nestorianism was not an educational success : and it seems that this should be the supreme test, for knowledge is progressive, and so the smallest contribution towards further progress must be of more real value than the most efficient teaching of results already achieved. Yet it would be difficult to over-estimate the importance of Nestorianism in preparing an oriental version of Hellenistic culture in the pre-Muslim world. Its main importance lies in its being preparatory to Islam which brought forward Arabic as a cosmopolitan medium for the interchange of thought and so enabled the Syriac material to be used in a wider and more fruitful field.

Although Nestorius had been condemned, the Church was left with a problem. The objection was true that, if the Logos and the rational soul in Christ were fused together so that the rational soul or spirit lost itself in its source, the Logos dwelt in an animal body and the full humanity of Christ disappeared,

The Nestorian view of a temporary " connection " was now condemned as heretical, but was it necessary to go to the other extreme of " fusion " which was the logical result of the Alexandrian teaching ? The Church wished to be philosophically correct and yet to avoid the conclusions which might be drawn from either view in its extreme form. In fact philosophy ruthlessly pressed home was the danger of which the Church was most afraid, feeling in some dim realm of sub-consciousness that the deposit of faith did not quite fall into line with science, or at least with the science then in fashion ; and the Church's real enemies were the enthusiasts who were confident that doctrine and philosophy were both absolutely true. Nor have we, even in these days, altogether learned the lesson that both are still partial and progressive. Islam had to go through exactly the same experience in her day and came out of it with very similar results, that is to say both the Christian and Muslim churches finally chose the *via media* adopting the philosophical statement of doctrine but condemning as heretical the logical conclusions which might be deduced. The Alexandrian school, elated perhaps at its victory over Nestorius, became rather intemperate in the statement of its views and pressed them home to an extreme conclusion. At once the warning prediction of the Nestorians was justified: the teaching of a " fusion " between the Logos and the rational soul in Christ entirely undermined his humanity. Another controversy ensued

and in this, as in the former one, neither side suggested any doubt as to the psychology or metaphysics borrowed from the Aristotelian and neo-Platonic philosophies, that was throughout assumed as certain, the problem was to make Christian doctrine fit in with it. Now those who opposed the Alexandrian conclusions maintained the theory of a "union" between the Logos and the rational soul in Christ, so that the complete humanity was preserved as well as the deity, and the union was such as to be inseparable and so safeguarded from the Nestorian theory. In fact this was simply admitting the philosophical statement and forbidding its being pressed home to its possible conclusions. This is described as "orthodox" doctrine and rightly so in the sense that it expresses, though in philosophical terms, a doctrine as it was held before the Church had learned any philosophy, and excluded possible deductions which came within range as soon as a philosophical statement was made. This is the normal result when doctrine originally expressed by those ignorant of philosophy has to be put into logical and scientific terms: the only orthodox representation of the traditional belief must be a compromise.

This second controversy resulted in the Council of Chalcedon in A.D. 448, at which the advocates of the theory of "fusion" were expelled from the state church, and thus a third body was formed, each of the three claiming to represent the true faith. Practically the whole of the Egyptian Church followed **the**

" fusionists " or Monophysites or Jacobites, as they **were** called after Jacob of Serugh, who was mainly instrumental in organizing them as a church : in Syria also they had a strong following. Like the Nestorians they were persecuted by the Emperor and the state church, but unlike them they did not migrate outside the Byzantine Empire, but remained an important though strongly disaffected body within its limits, though later on they sent out off-shoots into other lands. Like the Nestorians they tended to discard the language of their persecutors and to use the vernacular Coptic and Syriac : it is rightly claimed that the golden age of Syriac literature and philosophy begins with the Monophysite schism. A curious line of demarcation however, is observed in Syriac between the Jacobites in the West and the Nestorians in the East: they used different dialects, which is prob&bly the result of their geographical distribution, and they used different scripts in writing which was partly due to deliberate intension, though partly also to the use of slightly different implements for writing.

When we consider the results of the Monophysite and Nestorian schisms we begin to understand why so much Greek philosophical material was translated into Syriac, whilst the Nestorian movement was the effective reason why Syriac gradually became the medium for transmitting Hellenistic culture into the parts of Asia which lay beyond the confines of the Byzantine Empire during the centuries immediately

preceding the outspread of Islam. It is obvious that the late Aristotelian and neo-Platonic philosophers were of vital importance to everyone engaged in the theological controversies of the day, and the Aristotelian logic was of equal importance as on it depended the way in which terms were used. After their separation from the Greek Church the Nestorians and Monophysites turned to the vernacular speaking Christians, and so a large body of philosophical as well as theological matter was translated into Syriac; very much less into Coptic, for the Egyptian Monophysites were not called upon to face so much controversy as their brethren in Syria.

The period between the schisms and the beginning of Muslim interest in philosophy was one of prolific translation, commenting, and exposition. Whilst there is much interest in tracing the literary history of a nation, there is comparatively little in following the history of a literature which is confined to activities of this sort, for it cannot be much more than a list of names. Commentary and essay might indeed open up a field of originality, but nothing of the sort appears in this type of Syriac work: it seems as though the provincialism which followed severance from the Greek world brought in narrowing restrictions so that, although we get able and diligent workers, they never seem able to advance beyond re-statement, more or less accurate, of results already achieved.

Besides philosophy and theology we find a con-

siderable interest in medicine and the two sciences of chemistry and astronomy which were treated as allied to it, for astronomy, regarded from the astrological point of view, was supposed to be closely associated with the conditions of life and death, of health and disease. Medical studies were especially attached to the school of Alexandria. Philosophy proper had been so largely taken over by theology that the secular investigators were rather impelled to turn to the natural sciences and as a centre of medical and allied studies the ancient school of Alexandria continued its development without loss of continuity, but under changed conditions. John Philoponus, or John the Grammarian, as he was called, was one of the later commentators on Aristotle and also one of the early lights of this medical school. The date of his death is not known, but he was teaching at Alexandria at the time when Justinian closed the schools at Athens in A.D. 529. The next great leader of this school was Paul of Aegina who flourished at the time of the Muslim conquest, and whose works long served as popular manuals of medicine. The founders of the medical school at Alexandria established a regular course of education for the training of medical practitioners, and for this purpose selected sixteen works of Galen, some of which were re-edited in an abridged form, and were made the subject of regular explanatory lectures. At the same time the school became a centre of original research, not only in medicine, but also in chemistry and other branches of

natural science. Thus, on the eve of the Muslim conquest Alexandria had become a great home of scientific enquiry. To some extent this was unfortunate as the existing traditions in Egypt directed those investigations very much into obscurantist lines and tended to the use of magical forms, talismans, etc., and to introduce an astrological bias. This afterwards became the great defect of Arabic medicine as appears later even in mediaeval Padua, but it was not the fault of Islam, it was an inheritance from Alexandria. Such material as remains of Syriac research shows us a saner and sounder method in vogue there, but Alexandria had eclipsed the Syrian scientists at the time of the Muslim invasion> at least in popular esteem, and this was a determining factor in directing Arabic research into these astrological by-paths.

Amongst the famous products of this school was Paul of Aegina, whose medical works formed the basis of much of the mediaeval Arabic and Latin teaching, and the priest Ahrun (Aaron) who composed a manual of medicine which was afterwards translated into Syriac and became a popular authority, Alexandria was the centre also of chemical science, and as such was the parent of later Arabic alchemy. It appears from M. Berthelot's exhaustive study of Arabic chemistry (*La chimie au moyen age*: Paris. 1893) that the Arabic material may be divided into two classes, the one based upon, and mainly translated from, the Greek writers current in Alexandria, the other representing a later school of

independent investigation. Of the former class Berthelot gives three specimens, the Books of Crates, of al-Habid, and of¹ Ostanès, all representing the Greek tradition which flourished at Alexandria on the eve of the Muslim invasion.

Whilst the Alexandrians kept alive an interest in medical and the allied sciences the separated branches of the vernacular speaking churches of Asia were more interested in logic and speculative philosophy. It was perhaps natural that the Monophysites with their strong Egyptian connection should adopt the commentaries of John Philoponus, himself a Monophysite of a type, but both they and the Nestorians invariably used Porphyry's *Isagoge* as an introductory manual. In the general treatment of metaphysics and psychology as applied to theology, and in the treatment of theology itself, the Monophysites inclined more towards neo-Platonism and mysticism than the Nestorians, and their life centered more in the monasteries, whilst the Nestorians adhered rather to the older system of local schools, although they too had monasteries, and in course of time the schools adopted the discipline and methods of the convent.

The oldest and greatest of the Nestorian schools was that of Nisibis, but in A.D. 550 Mar Ahba, a convert from Zoroastrianism, who had become *catholikos* or patriarch of the Nestorians, established a school at Seleucia on the model of Nisibis. A little later the Persian king, Kusraw Anushirwan (Nushirwan, Aor. 531-578 A.D.) who had been greatly impressed by the

view of Hellenistic culture which he had obtained during his war with Syria, and had offered hospitality to the ejected Greek philosophers when Justinian closed the schools at Athens, founded a Zoroastrian school at Junde-Shapur, in Khuzistan, where not only Greek and Syriac works, but also philosophical and scientific writings brought from India, were translated into Pahlawi, or Old Persian, and there the study of medicine taught by Greek and Indian physicians was developed more fully than in the theological atmosphere of the Christian schools, although some of the most distinguished medical teachers in this school were themselves Nestorian Christians. Amongst the alumni of Junde-Shapur were the Arab Hares b. Kalada, who afterwards became famous as a practitioner, and his son Ennadr, cited in the 5th canon of Ibn Sina (Avicenna), an enemy of the Prophet Muhammad who was amongst those defeated at the battle of Badr and was put to death by 'Ali. Several Indian medical writers are cited by Razes and others, notably Sharak and Qolhoman, whilst the treatise on poisons by the Indian Shanak was, at a later date, translated into Persian by Manka for Yahya b. Khalid the Barmecide and afterwards into Arabic for the 'Abbasid Khalif al-Ma'mun. Manka, who was medical attendant to Harunu r-Bashid, translated from Sanskrit various medical and other works. Besides the Christian and Zoroastrian schools there was also a pagan school at Harran, of whose foundation we have no further

information. Harran had been a centre of Hellenic influence from the time of Alexander the Great and remained a refuge for the old Greek religion when the Greek world at large had become Christian. Although it would appear that Harran had an inheritance from the ancient Babylonian religion, which had a late revival during the first centuries of the Christian era, this had been entirely overlaid with the developments of paganism as revised by the neo-Platonists. Indeed Harran shows the last stand of Greek paganism and neo-Platonism as the two had been formulated by Porphyry and they continued there to live out a vigorous though secluded life.

There were thus several agencies at work developing and extending Hellenistic influence in Persia and Mesopotamia which later on became a Persian province, and besides these established schools there were many secondary forces. The Persian armies returning from the invasion of Syria brought back many items of Hellenic culture, amongst them the Greek system of baths which was copied in Persia and continued by the Muslims who spread this refinement throughout the Islamic world, so that what we call the Turkish bath is a lineal descendant of the old Greek bath passed through the Persians of pre-Muslim times, and then spread more widely by the Muslims. These armies brought home also a great admiration for Greek architecture and engineering, and Greek architects, engineers, and craftsmen being amongst the most valued plunder brought back

from Syria, by their help Persia endeavoured to start building in the Greek style- Thus the centuries immediately before the outspread of Islam show a wide and steady extension of Hellenistic influences in all the different forms of culture, in science, philosophy, art, architecture, and in the luxuries of life: and even before this, ever since the days of Alexander the Great, there had been a percolation of Greek influence, so that Western Asia was steeped in Hellenistic art, in many cases very crudely represented and combined with native elements. When the oppressive control of the Umayyads was lifted and the native population came again to its own, we can hardly wonder that this meant a revival of Hellenism.

We have already mentioned *Ibas* (d. 457) as the teacher of Barsuma who led the Nestorian migration into Persia and re-opened the school of Msibis. This *Ibas* had been the great luminary of the school of Edessa in its last days and seems to have been the first to make a Syriac translation of Porphyry's *Isagoge*, the recognised manual of logic preparatory to Aristotle's *Organon*. This shows that logic had been taken as the chief material of education amongst the Nestorians and very much the same seems to have been the case amongst the Monophysites.

About the same time flourished *Probus*, who is said to have been a presbyter of Antioch, and produced commentaries upon Porphyry's *Isagoge*, and on Aristotle's *Hermeneutica*, *Soph. Elench.*, and *Analytica Priora*, these commentaries becoming

favourite manuals amongst the Syriac speaking students of logic. Hoffman's *De Hermeneuticis apud Syros* (Leipzig, 1873) gives the text of the commentary on the *Hermeneutica* followed by a Latin translation. The method employed here and in all Syriac commentaries is to take a short passage, often no more than a few words, of the Text of Aristotle translated into Syriac and then give an explanation of the meaning sometimes extending to several pages, sometimes only a brief remark, according to the difficulty of the text, very much as if a teacher were reading aloud and explaining passages by passage as he read. This became the usual method of commenting and was afterwards copied by the Muslims in their commentaries on the Qur'an. The commentary on the *Isagoge* has been published by Baumstark (*Aristoteles bei den Syrern*, Leipzig, 1900), and that on the *Analytica Priora* by the great Louvain scholar Prof. Hoonacker in the *Journal Asiatique* for July-August, 1900.

The greatest of the Monophysite scholars was *Bergius* of Ras al-'Ayn (d. 536), who was both a translator and the author of original treatises on philosophy, medicine, and astronomy. His medical work was his chief interest and he left a permanent mark as a translator into Syriac of a considerable part of Galen. He spent some time in Alexandria where he perfected himself in a knowledge of Greek and learned chemistry and medicine in the Alexandrian medical school then just beginning its career. Some

of his translation of Galen is preserved in the British Mus. MSS. Addit. 14661 and 17156 : in the latter are fragments of the " Medical art " and " Faculties of the aliments " which have been edited by Sachau (*Inedita Syriaca*, Vienna, 1870). Of his philosophical work Sachau has given us the versions which he made of the *Isagoge* and *Table* of Porphyry, and Aristotle's *Categories* and the dubious *de mundo*, as well as a treatise on " the soul " which is not the *de anima* of Aristotle. He wrote original treatises on logic in seven books (incomplete—Brit. Mus. Add. 14660 contains that on the categories), on " negation and affirmation," on " genus, species, and individual," on " the causes of the universe according to Aristotle " and minor essays. In astronomy he has left a tract " on the influence of the moon " which is based on the work of Galen (cf. Sachau, op. cit.) The writings of Sergius circulated amongst both Nestorians and Monophysites, all regarding him as a leading authority on medicine and logic, and in medicine it seems that he was the founder of a Syriac school which became the parent of Arabic medicine, certainly that school owed its impetus to him. Bar Hebraeus refers to him as " a man eloquent and greatly skilled in the books of the Greeks and Syrians and a most learned physician of men's bodies. He was indeed orthodox in his opinions, as the " Prologue " bears witness, but in morals corrupt, depraved, and stained with lust and avarice " (Bar Hebraeus. ed. Abbeloos et Lamy. i. 205-7)-

In the same century lived *Ahudemmeh* who became bishop of Tagrit in A.D. 559, and introduced the commentary of John Philoponus as the regular manual of instruction amongst the Syriac speaking Monophysites. He is said to have composed treatises on the definitions of logic, on the freedom of the will, on the soul, on man considered as a microcosm, and on the composition of man as of soul and body, this last in part preserved in MS. Brit. Mus. Addit. 14620.

Amongst the Nestorian scholars of the sixth century was *Paul the Persian* who produced a treatise on logic which he dedicated to King Khusraw and has been published in M. Land's *Analecta Syriaca* (iv).

This has brought us to the period of the Muslim invasion. In 638 Syria was conquered, and the conquest of Mesopotamia followed in the course of the same year, that of Persia four years later. In 661 the Umayyad dynasty of Arab rulers was established in Damascus ; but all this did not greatly affect the internal life of the Christian communities who lived on in perfect liberty, subject only to the payment of the poll tax.

About 650 the Nestorian Henanieshu' wrote a treatise on logic (cf. Budge: *Thomas of Marga*. i. 79) and commented on John Philoponus.

The Monophysites had no great schools like the Nestorians, but their convent at Qensherin, on the left bank of the Euphrates, was a great centre of Greek studies. Its most famous product was *Severus SeboJct* who flourished on the eve of the Muslim

conquest. He was the author of a commentary on Aristotle's *Hermeneutica* of which only fragments survive, of a treatise on the syllogisms of the *Analytica Priora*, and of epistles dealing with terms used in the *Hermeneutica* and on the difficult points in Aristotle's *Rhetoric* (cf. Brit. Mus. Add. 14660, 17156). In astronomy he wrote on "the Figures of the Zodiac" and on "the Astrolabe," the former of these is preserved in Br. Mus. Add. 14538 and has been published by Sachau (op. cit.), the latter in Berlin MS. Sachau 186 and published by Nau in the *Journal Asiatique* of 1899.

Athanasius of Balad who became Monophysite patriarch in 684 was a pupil of Severus Sebokt, and is chiefly known as the translator of a new Syriac version of Porphyry's *Isagoge* (Vatican Ms. Syr. 158. cf. Bar Hebraeus *Chron. Eccles.* ed. Abbeloos et Lamy. i. 287).

James of Edessa (d. 708 A.D.) also was a pupil of Severus Sebokt at the same convent, was made bishop of Edessa about 684 and abandoned this see in 688 as the result of his failure to carry out the reformation of the monasteries in his diocese: he retired to the monastery of St. James at Kaishun, between Aleppo and Edessa, but left this to become lecturer at the monastery of Eusebona, in the diocese of Antioch where "for eleven years he taught the psalms and the reading of the scriptures in Greek and revived the Greek language which had fallen into disuse" (Bar Hebr. *Chron. Eccles.* i. 291). **Attacked**

by the brethren who disapproved of the study of Greek, he migrated to the monastery of Tel'eda where he prepared a revised version of the Peshitta or Syriac Vulgate of the Old Testament, finally returning to Edessa about four months before his death. His *Enchiridion*, a treatise on the terms used in philosophy, is preserved in the Brit. Mus. MS. Addit. 12154.

George, who became "bishop of the Arabs" in 686, was himself a pupil of Athanasius of Balad and translated the whole logical *Organon* of Aristotle, of which his versions of the *Categories*, *Hermeneutica*, and *Analytica Priora* appear in Brit. Mus. Addit. 14659, each furnished with an introduction and commentary.

These names cover the whole period between the two schisms and the Muslim invasion and suffice to show that the Syriac speaking community continued diligent in the study of the Aristotelian logic and metaphysics, and also gave attention to medical and scientific studies. It is not exactly a brilliant or original form of cultural activity, for the most part it was only the transmission of received texts with the preparation of new translations, commentaries, and explanatory treatises, but this itself fulfilled an important function. The Muslim invasion made no change in the course of these studies : the Umayyads did not interfere with the schools and the Syriac students went their own way living a life quite apart from that of their Arab rulers. Now and then unscrupulous or angry clergy appealed to the Ehalif

against their fellow clergy and this was the commonest cause of interference which the historians describe as persecution. Such was the experience of *Henanyeshu'* who became Nestorian Catholicos in A.D. 686. The bishop of Nisibis made complaints against him to the Khalif 'Abdul-Malik in consequence of which he was deposed, imprisoned, and then thrown over a cliff. He was not killed by his fall, though severely lamed ; by the kindness of some shepherds he was sheltered and nursed back to health, and then retired to the monastery of Yannan near Mosul, resuming his patriarchal office after the death of the bishop of Nisibis, and holding it until his own death in 701 (Bar Heb. *Chron. Eccles.* Abbeloos et Lamy. ii. 135-140). Besides sermons, letters, and a biography of Dewada, he wrote an educational treatise on " the twofold duty of the school " as a place of religious and moral influence on the one hand, and of an academy of the humanities on the other (cf. Assemsan BO.) iii. part I. 154 and also an " Explanation of the Analytica " (id).

Mar Abha III. became Nestorian Catholicos somewhere about 740 (133 A.H.) and produced a commentary on Aristotle's logic (cf. Bar Heb. ii. 153).

This brings us down to the period when the Muslim world began to take an interest in these philosophical and scientific studies, and translations and commentaries began to appear in Arabic. But Syriac studies did not at once disappear and it will be convenient to enumerate briefly some of those who appeared in

later times down to the age of Bar Hebraeus (d. A.D. 1286), with whom the literary history of Syriac comes to an end. In the latter part of the eighth century we find *Jeshudena* bishop of Basra writing an "introduction to logic." Shortly afterwards *Jeshuboki* metropolitan of Persia wrote on the Categories (cf. *Journ. Asiat.* May-June. 1906). Hunayn b. Ishaq, his son Ishaq, and his nephew Hubaysh, with some other companions, formed the college of translators established at Baghdad by the Khalif al-Ma'mun to render the Greek and other philosophical and scientific texts into Arabic, a work to which we shall refer again; but Hunayn, who was a Nestorian Christian, was also occupied in making translations from the Greek into Syriac: he prepared, or revised, Syriac versions of Porphyry's *Isagoge*, Aristotle's *Hermeneutica*, part of the *Analytica*, the *de generatione et corruptione*, the *de anima*, part of the *Metaphysics*, the *Summa* of Nicolas of Damascus, the Commentary of Alexander of Aphrodisias, and the greater part of the works of Galen, Dioscorus, Paul of Aegina, and Hippocrates. His son Ishaq also made a translation of Aristotle's *de anima*, and it is significant that this treatise and the commentary of Alexander Aphr. now begins to take the most prominent place in philosophical study; the centre of interest is moving from logic to psychology. About the same time the physician *John Bar Maswai* (d. A.D. 857) composed various medical works in Syriac and Arabic. He, like Hunayn, was one of the intellectual group which the 'Abbasids

gathered together in their new capital city of Baghdad. Contemporary also were the Syriac writers *Denha* (or *Ibas*) who compiled a commentary on the Aristotelian logical Organon: *Abzud*, the author of a poetical essay on the divisions of philosophy, and then, after a series of minor writers on logic, *Dionysius Bar Salibi* in the twelfth century A.D., who composed commentaries on the *Isagoge*, the *Categories*, *Hermeneutica*, and *Analytica*; and in the early part of the following century *Yaqub Bar Shakako*, author of a collection of "Dialogues" of which the second book deals with philosophical questions of logic, physics, mathematics, and metaphysics.

The series of Syriac philosophical writers closes with *Gregory Bar Hebraeus*, or *Abu l-Faraj* in the thirteenth century A.D. whose "Book of the Pupils of the Eyes" is a compendium of logic summarising and explaining the *Isagoge*, and Aristotle's *Categories*, *Hermeneutica*, *Analytica*, *Topica*, and *Sophistica Elenchi*; his "Book of the Upholding of Wisdom" being a summary introduction to logic, physics, metaphysics, and theology. A third work "The Cream of Science" is an encyclopaedia of the Aristotelian philosophy, and this work appears also in an abridged form as the ⁴⁴ "Business of Businesses." He was also the translator into Syriac of Dioscorus on simples, and author of a treatise on the medical *Questions* of Hunayn b. Ishaq, and of a work on geography called "the Ascent of the Spirit." Although esteemed as one of the greatest Syriac authorities and for centuries holding a

place of primary importance, he was in reality no more than a compiler who produced encyclopaedic works dealing with the researches of his predecessors.

The great importance of the Syriac speaking Christian communities was as the medium whereby Hellenistic philosophy and science was transmitted to the Arabic world. There was no independent development in its Syriac atmosphere, and even the choice of material had already been made by the Hellenists before it passed into Syriac hands. It was now definitely established that the basis of the "humanities" was the Aristotelian logic, and that this as well as all other studies in the work of Aristotle was to be interpreted according to the neo-Platonic commentators. In medicine and chemistry the curriculum of the school of Alexandria was recognised as authoritative and this, in so far as it was based upon Galen and Hippocrates, and upon the teaching of Paul of Aegina in obstetrical medicine, was to the good: but there was a mystical side of Alexandrian science mixed up with astrology, so that particular drugs had to be taken where certain planets were in the ascendant, and such like ideas, which gave a magical tone to Alexandrian and Arabic medicine which was not for its advantage, although it must be remembered that the ready contempt formerly poured upon Arabic science as mere charlatanism is now expressed more cautiously: we are prepared to admit that very much real and valuable work was done in medicine and chemistry,

although it is probable that the Egyptian obscurantism did rather tend to hinder the steady development of the sounder tradition derived from Galen and the Greek physicians.

We are thus able to understand that " Muslim theology, philosophy, and science put forth their first luxuriant shoots on a soil which was saturated with Hellenistic culture." (Nicholson: *Mystics of Islam*. London. 1914 .p. 9.) The passage of Hellenism took place through five channels :—

(i) The Nestorians who hold the first place as the earliest teachers of the Muslims and the most important transmitters of medicine.

(ii) The Jacobites or Monophysites who were the chief influences in introducing neo-Platonic speculations and mysticism.

(iii) The Zoroastrians of Persia and especially the school of Junde-Shapur, although this had a strong Nestorian element.

(iv) The Pagans of Harran who came forward at a later stage.

(v) The Jews who, in this connection, occupy a somewhat peculiar position : they had no contact with the tradition of Aristotelian philosophy, their academies at Sora and Pumbaditha were concerned with their own traditional law and Bible exegesis only. Jewish philosophical studies began later and were themselves derived from the Arabic philosophers. But they shared with the Nestorians an inclination towards medical studies so that Jewish physioians.

appear in the early days of Baghdad. Yet they come distinctly second to the Nestorians. Thus amongst the medical writers mentioned by Dr. Leclerq in his *Histoire de la médecine arabe* (Paris, 1876) we find amongst the names cited for the tenth cent. A.D. that there are 29 Christians, 3 Jews, and 4 pagans of Harran, though in the next century only 3 Christians appear, as against 7 Jews, the work then passing very largely into Muslim hands.

CHAPTER II

THE ARAB PERIOD

Islam in its earlier form was entirely an **Arab** religion. The temporal side of the Prophet Muhammad's mission shows him engaged in an effort to unite the tribes of the Hijaz in a fraternal union, to limit the custom of the *razzia* (*ghazza*) or marauding foray, and to form an orderly community. These temporal aims were due to the influence of Madina on the Prophet and to the conviction that it was only in such a community that his religious teaching could obtain a serious attention. In Mecca he had been faced with constant opposition chiefly due to the tribal jealousies and strife which formed the normal condition of a Bedwin community. Madina was a city in a sense quite different from that in which the term could be applied to Mecca. It had developed a civic life, rudimentary no doubt but very far in advance of the Meccan conditions, and had inherited a constitutional tradition from Aramaean and Jewish colonists. At Madina the Prophet began to perceive the difference produced by the association of men in an ordered communal life as contrasted with the incoherence of the older tribal conditions, and the accompanying difference of attitude towards religion.

This last was not really due to civic life but more directly to Jewish influence, although no doubt the conditions of city life were more favourable to the evolution of speculative theology than those of the wilder tribes. The older Arabs seem to have accepted the idea of one supreme God, but speculated little about him : they did not regard the supreme deity as at all entering into their personal interests, which were concerned only with the minor tribal deities who were expected to attend diligently to tribal affairs and were sharply censured when they appeared to be negligent about the interests of their clients. The desert man had no tendency to the sublime thoughts about God with which he is sometimes credited, nor had he any great reverence towards the minor members of his pantheon. The Prophet found it one of his most difficult tasks to introduce the observance of prayer amongst the Arabs, and they do not appear very much attached to it at the present day. In Madina the Prophet was in contact with men whose attitude towards religion was very different and who were more in sympathy with the principles which he had learned from very much the same sources as themselves.

In Madina, therefore, the Prophet added a temporal side to the spiritual work in which he had been previously engaged. It was not consciously a change of attitude, but simply the adoption of a subsidiary task which seemed to provide a most useful accessory to the work which he had already been doing. Its

keynote is given in the Madinian Sura 49.10, " Only the faithful are brethren, wherefore make peace between your brethren." It was a call to his fellow Arabs of the Hijaz to cease their strife and to unite in the bonds of brotherhood. Such a union on the part of those whose habits and ideals were warlike and who were disinclined to the arts of peace, necessarily produced an attitude of hostility towards persons outside their community. Was this militant attitude any part of Muhammad's plans ! The answer must certainly be in the negative. The military enterprises of early Islam were no part of its original programme. In those enterprises the Prophet and his immediate successors show a hesitating and dubious attitude; obviously their hands were forced and they take the lead reluctantly.. As Fr. Lammens says :—

Le Qoran travailla a reunir les tribus du Higaz. La predication de Mahomet reussit a mettre sur pied une armee, la plus nombreuse, la plus discipline qu'on eut vue jusque-la dans la Peninsule. Cette force ne pouvait longtemps demeurer sans emploi. Par ailleurs Mslam, en imposant la paix entre les tribus, rallies a la nouvelle religion ou simplement a l'etat medinois en formation,—le *ta'lif al-qoloub* poursuivait ce dernier objectif—l'islam allait fermer tout issue a l'inquiete activity des nomades. Il pretendait supprimer a tout le moins limiter, le droit de razzia, place a la base de cette societe patriarcalement anarehique. Il fallait s'at-

tendre a voir le torrent; momentan; ment endigue, deborder sur les regions frontteres.

" Que Mahomet ait assigne ce but a leurs efforts ? Il devient difficile de defendre cette th&se, trop facilement accepts jusqu'ici."

(Lammens : *Le beroeau de Vislam*. Borne, 1914, i. p. 175.)

In the expedition against Mecca a militant attitude was the inevitable result of compelling circumstances. The Meccans were actively hostile and had adopted a persecuting attitude towards those who accepted the new religion. At the time the Quraysh tribe, to which Muhammad belonged, was so far in the ascendant that its adhesion was necessary for the progress of Islam in the Hijaz : the championship of some prominent tribe was essential, and Muhammad himself was deeply attached to the traditional " House of God " at Mecca, to which his own family was bound by many associations ; besides he desired the adherence of his own tribe as his mission was to it in the first place. Had the Meccan opposition not been broken down the Muslim religion could have been no more than the local cult of Madina, and even as such would have had to be perpetually on the defensive. No doubt the " holy war " as an institution was based on the traditions of this expedition, but such a war is related to the later enterprises for the conquest of non-Arab nations by a line of development which the Prophet himself could hardly have anticipated. The challenge to Heraclius is on a

similar footing. Although we may not be disposed to accept the traditional account given by Bukhari, there no doubt was some such challenge. But Heraclius had only recently re-conquered Syria for the Byzantine Empire, the land he had acquired included a considerable portion of the Syrian desert which formed a geographical unity with Arabia, and amongst his subjects were Arab tribes closely akin to those of the Hijaz.

Islam became a militant religion because it spread amongst the Arabs at a time when they were beginning to enter upon a career of expansion and conquest, and this career had already commenced before Muhammad had got beyond the first—the purely spiritual—stage of his work. The only reason why the earlier Arab efforts were not followed up immediately seems to have been that the Arabs were so surprised at their success that they were unprepared to take advantage of it. For some time previously Arab settlements had been formed in the debateable land where the Persian and Byzantine Empires met, but this encroachment had been more or less veiled by the nominal suzerainty of one or other of the great states. The Quda, a tribe of Himyaritic Arabs, had settled in Syria and become Christian, and was charged by the Byzantine Emperor with the general control of the Arabs of Syria (Masudi: iii., 214-5); that tribe was superseded by the tribe of Salih (id. 216), and that by the Arab kingdom of Ghasan which acknowledged the Emperor of Byzantium as

its overlord, whilst the Arab kingdom of Hira acknowledged the Persian king. Somewhere between A.D. 604 and 610, when the first beginnings of persecution were falling on the Prophet in Mecca, the Arabs led by al-Mondir inflicted a crushing defeat upon the Persian army under King Khusraw Parwiz, who, a few years before, had led a victorious force to the invasion of the Byzantine province of Syria. This victory showed the Arabs that, in spite of its imposing appearance, the Persian Empire, and presumably the Byzantine also, were vulnerable, and a determined effort might easily place the wealth of both at the disposal of the Arabs.

The Muslim conquests of the 7th century A.D. form the last of a series of great Semitic outspreads of which the earliest recorded in history resulted in the formation of the empire of Babylon some 2225 years before the Christian era. In all these the motive power lay in the Arabs who represent the parent Semitic stock, the more or less nomadic inhabitants of the barren highlands of Western Asia, who have always tended to prey upon the more cultured and settled dwellers in the river valleys and on the lower slopes of the hills.

" The belts between mountain and desert, the banks of the great rivers, the lower hills near the sea, these are the lines of civilization (actual or potential) in Western Asia. The consequence of these conditions is that through all the history of Western Asia there runs the eternal distinction between the civilized

cultivators of the plains and lower hills and the wild peoples of mountain and desert. The great monarchies which have arisen here have rarely been effective beyond the limits of cultivation ; mountain and desert are another world in which they can get, at best, only precarious footing. And to the monarchical settled peoples the near neighbourhood of this unsubjugated world has been a continual menace. It is a chaotic region out of which may pour upon them at any weakening of the dam hordes of devastators. At the best of times it hampers the government by offering a refuge and recruiting ground to all the enemies of order." (Bevan: *House of Seleucus*, i., p. 22.)

Scornful of agriculture and with a strong distaste for settled and especially for urban life, the Bedwin are those who have remained nomads by preference, and like all races at that stage of evolution, find the most congenial outlet for their vigour in tribal warfare and plundering expeditions. From the earliest dawn of history they have always been strongly tempted by the wealth of the settled communities within reach, and appear in the oldest records as robber bands. Sometimes predatory excursions were followed by settlement, and the invading tribes learned the culture of those amongst whom they settled : all the Semitic groups other than the Arabs had formed such settlements before the 7th century A.D., and these groups are distinguished one from another, and all from the parent stock, simply by

the cultural influences due to the earlier inhabitants of the lands they entered; the Arab stock itself remained high and dry, the stranded relic of more primitive conditions, though itself not absolutely free from a reacting influence. The only thing that ever has restrained the incursions of these nomadic tribes into such neighbouring lands as offer hope of plunder is the military power of those who endeavour to place a barrier for the protection of the settled community of the cultivated area, and every Arab outspread has been due, not to the pressure of hunger resulting from the desiccation of Arabia, nor to religious enthusiasm, but simply to the weakness of the power which tried to maintain a dam against them.

In the 7th century A.D. the two powers bordering on the Arab area were the Byzantine and Persian empires. Both of these were, to all appearance, flourishing and stable, but both alike were in reality greatly weakened by external and internal causes which were closely parallel in the two. Externally, both had been severely shaken by some centuries of warfare in which they had disputed the supremacy of Western Asia, and both had suffered from rear attacks by more barbarous foes. Internally, both alike had a thoroughly unsatisfactory social structure, though the details differ: in the Byzantine Empire almost the whole burden of a very heavy taxation fell upon the middle classes, the *curiales*, and the armies were mainly composed of foreign mercenaries, whilst in the Persian Empire a rigid caste system

The Arab certainly was not disposed to regard the conquered alien, even if he embraced Islam, as a brother. To him the conquest of foreign lands meant only the acquisition of vast estates, of great wealth and unlimited power: to him the conquered were simply serfs to be used as a means of rendering the conquered lands more productive. The conquered were allowed the choice either to embrace Islam or to pay the poll tax, but the 'Umayyads discouraged conversion as damaging to the revenue, although the cruel and hated Hajjaj b. Yusuf (d. 95) forced even converts to pay the tax from which they were legally exempt, (iii) The third stratum consisted of the "clients" (mawla, plur. mawali), the non-Arab converts, theoretically received as brethren and actually so treated by the "old believers," but regarded as serfs by Arabs of the Umayyad type. Owing to the wide expansion of Islam these rapidly increased in number until, in the 2nd century of the Hijra, they formed the vast majority of the Muslim world.

The two first Khalifs were "old believers" who had been companions of the Prophet in his flight from Mecca. The third, 'Uthman, had also been one of the Prophet's companions, but he was a weak man and moreover, belonged to the 'Umayyad clan, which, as the aristocratic element in Mecca, was then in the ascendant and, unable to free himself from the nepotism which is an Arab failing, allowed the rich conquests of Syria, Egypt, 'Iraq, and Persia to become the prey of ambitious members of the clan and thus

suffered the complete secularising of the Islamic state. When, in 35 A.H., he fell a victim to the assassin, he was succeeded by 'Ali, one of the older Muslims and the Prophet's cousin and son-in-law. But at 'Ali's accession the internal division appears as an accomplished fact. The purely secular Arabs, led by the 'Umayyad Mu'awiya, who was governor of Syria, entirely refused to recognise 'Ali, affecting to regard him as implicated in the murder of 'Uthman, or at least as protecting his murderers. On the other hand, the Kharijite sect, claiming to represent the older Muslim type, but in reality mainly composed of the Arabs of Arabia and of the military colonies, who were envious of the power and wealth of the Umayyad faction, at first supported him, then turned against him, and in 41 were responsible for his assassination.

At 'Ali's death Mu'awiya became Khalif and founded the Umayyad dynasty which ruled from 41 to 132 A.H. During the whole of this period the official Khalifate was Arab first and Muslim only in the second place. This forms the second period of the history of Islam when the religion of the Prophet was allowed to sink into the background and the Arab regarded himself as the conqueror ruling over a subject population. There was no forcible conversion of a subject population, indeed, save in the reign of 'Umar II (A.H. 99-101) conversions were rather discouraged as detrimental to the poll tax levied on non-Muslims. There was no attempt to force the Arabic language: until the reign of 'Abdu l-Malik

(65-86), who started an Arabic coinage, the public records were kept and official business transacted in Greek, Persian, or Coptic, as local requirements demanded, and the change to Arabic seems to have been suggested by the non-Muslim clerks. When Arabic became the official medium of public business then, of course, motives of convenience and self-interest caused its general adoption. Hitherto it had been used in prayer by those who had become Muslim, but now it had to be learned more accurately by all who had to do with the collection of the revenue or the administration of justice. Incidentally this became a matter of great importance, as it provided a common medium for the exchange of thought throughout the whole Muslim world.

As rulers in Syria, the Arabs were in contact with a fully developed culture which was brought to bear upon them in various ways, in the structure of society and in social order generally, in the arts and crafts, and in intellectual life. The Greek influence was nearest at hand, but there was also a very strong Persian element in close contact with them. The provincial officials of Syria, all trained in the methods of the Byzantine Empire, continued in their employ, and, as Syria was the seat of the 'Umayyad government, the state came under Greek influence. Yet, for all this, even in 'Umayyad times, the Persian influence seems to have been very strong in political organization. The governments already existing in Egypt and Syria were provincial, dependent upon

and subordinate to, the central government at Byzantium, and constantly recruited by Byzantine officials, at least in their upper grades. The Persian government, on the other hand, was a self-contained one, fully organised throughout and including the supreme and central authority. Until the fall of the 'Umayyads, after which Persian influence became supreme, the political structure of the Muslim state was somewhat experimental; apparently the rulers left the details altogether to the subordinate officials who adapted to the needs of the state such elements as they could use from the old provincial administration.

In the matter of taxation the early Khalifate continued the system already in vogue and employed existing methods for the collection of the newly imposed poll tax. It was on this side that the 'Umayyad rule was most unsatisfactory. Like many who have been bred in poverty and have afterwards suddenly come into great wealth, the Arabs behaved as though their wealth was inexhaustible: each governor bought his appointment from the state and it became a recognised custom for him to exact a cash payment from the outgoing governor, and then he was free to raise what he could from his defenceless subjects to prepare for the day when his opportunities of exaction came to an end. The thoroughly unsatisfactory condition of the 'Umayyad financial system was one of the leading causes of their fall. One of the 'Umayyad sheikhs, named Minkari, when asked the reason of their fall, replied :—

" We gave to pleasure the time which should have been devoted to business. Our subjects, harshly treated by us and despairing of obtaining justice, longed to be delivered from us : the tax payers, overburdened with exactions, were estranged from us : our lands were neglected, our resources wasted. We left business to our ministers who sacrificed our interests to their own advantage, and transacted our affairs as they pleased and without our knowledge. The army, with its pay always in arrear, ceased to obey us. And so the small number of our supporters left us without defence against our enemies, and the ignorance of how we stood was one of the chief causes of our fall." (Masudi: vi., 35-36.)

It will not be unfair to say, therefore, that during the 'Umayyad period the Arabs learned practically nothing of the art of government and of the work of administration. They were in the position of prodigal young heirs who leave all details to their men of business and content themselves with squandering the proceeds.

In the case of civil law matters were rather different. The civil law is necessarily based on the social and economic structure of the community, and in the acquired provinces this was so different from that-prevailing in Arabia that it was necessarily forced on the attention of the Arabs. Moreover, in primitive Islam, the line was not clearly drawn between the canon law and the civil law. Inheritance, the taking of pledges, and such like matters, were to the Arabs

subject to the direction and sanction of the law of God as revealed by his Prophet. Thus, for example, Sura 4, one of the later Madinian revelations, contains a statement of the law relating to guardianship, inheritance, marriage, and kindred topics, according to the social conditions prevailing at Madina. But in the Greek and Persian dominions the conquering Arab had to deal with more complex conditions for which the revealed law made no provision, although what it did contain so far touched the subject that it could not be treated regardless of revelation. It seemed impossible to disregard the revealed precepts and substitute an alien legislation, although this has been done in the modern Ottoman Empire, but not without many and grave protests; in the first century it would have been intolerable, for every disaffected faction would have used it to break up the Muslim state which was only held together by the prestige of the Prophetical tradition. We may well suppose that the 'Umayyads would have had no reluctance to try the experiment, but it was too dangerous. The only alternative was to expand the sacred law so as to include new requirements, and in the 'Umayyad period this was done by the addition of a vast number of fictitious traditions professing to relate what the Prophet had said and done in conditions in which he had never been placed. In describing these traditions as "fictitious," it is not necessarily implied that they were fraudulent, although many were so, showing an obvious motive in increasing the privi-

leges and rights of the dominant faction or asserting the tribal pre-eminence of the Quraysh, etc. But more often they are " fictitious " in the sense of legal fictions rightly correcting the actual law in the interests of equity • When entirely new conditions arose, the question would be asked, " How would the Prophet have acted in this case ? " The early companions of the Prophet, educated in the same environment as he had been educated, and confident that their outlook was essentially the same as his, had no hesitation in stating what he would have done or said, and their statement was almost certainly correct : but they worded their evidence, or it was afterwards worded for them, as a statement of what the Prophet actually had done or said. And, later again, in a subsequent generation, when new problems arose, no difficulty was felt in accepting the supposition that the Prophet would have admitted the reasonable and just solution which the Roman jurists proposed. Thus it finally came to pass that a considerable portion of the Roman civil law was embodied in the traditions of Islam (cf. Santillana : *Code civil et commercial tunisien*. Tunis, 1899, etc.) It is not to be supposed that Arab governors and judges studied the Roman code, they simply accepted its provisions as they found them in force in Syria and Egypt, and thus learned its general principles from the usage of the civil courts already existing. In many places material is found in the traditions which can be traced to Zoroastrian, Jewish, and even Buddhist sources,

though these deal rather with ritual and the description of the unseen world and serve to show how readily Islam absorbed elements with which it was in contact. So far as the actual needs of the civil law are concerned, the chief source was the Roman law, and these needs fill a very large part of the traditions.

It was not until the close of the 'Umayyad period that the Muslims began to develop a scientific jurisprudence and to make a critical examination and codification of the traditions. In the case of jurisprudence there were at first two schools, a Syrian and a Persian. The Syrian school formulated its system under the leadership of *al-AwzaH* (d. 157), and for some time it prevailed over all parts of the Muslim world which had been parts of the Byzantine Empire. The Persian school owed its origin to *Abu Hanifa* (d. 150) and, as the seat of government was removed to ⁴Iraq by the 'Abbasids and *Abu Hanifa*'s system was enforced by his pupil *Abu Yusuf* (d. 182) who was chief Qadi under the Khalif *Harunu r-Bashid*, it had a tremendous advantage over the Syrian school. It became the official system of the 'Abbasid courts and still holds its own through Central Asia, North India, and wherever the Turkish element prevails, whilst the Syrian system has become extinct. *Abu Hanifa*'s system represents a serious and moderate revision of the methods which had already come into use as extending the discipline of Islam to the needs of a complex and advanced civilization. Under the 'Umayyads the jurists had

supplemented any deficiencies in the law by their own opinion (*ra'y*) which meant the application of the judgment of a man trained under the Boman law as to what was just and fair. In that early period no derogatory sense was attached to "opinion" which rested on the theory that the intellect could intuitively perceive what is right and just, thus assuming that there is an objective standard of right and wrong capable of apprehension by philosophical enquiry, a theory which shows the influence of Greek ideas embodied in the Civil Code. But the 'Abbasid period experienced an orthodox reaction which tended to limit freedom in using speculative opinion, and Abu Hanifa shows this limitation. In his system weight was attached to every positive statement of the Qur'an which could be taken as bearing upon the civil law, only to a slight extent did he avail himself of the evidence of tradition, to a much larger extent he employs *qiyas* or "analogy," which means that a new condition is judged by comparison with some older one already treated in the Qur'an, and he also employed what he called *istihsan*, "the preferable," that is to say, what seemed to be equitable and right even when it diverged from the logical conclusion which could be deduced from the revealed law. Only in this latter case did he admit what can be described as "opinion," and this is strictly limited to the adoption of a course necessary to avoid an obvious injustice. As tljus stated, Abu Hanifa's system was broader, milder, and more reasonable than any other

treatment of the Islamic law : but it is a mistake to suppose that it still is mild and reasonable, for in the course of time the decisions pronounced as to " the preferable " have become hardened into precedents and the Hanifite code expresses only those fixed decisions of early mediaeval Islam without flexibility. The case is parallel with the English treatment of equity. In older times equity shows us the philosophical principles of justice correcting the defects of common law; but modern practice displays these principles fossilized as precedents and as rigid and formal in their application as the common law itself. As first conceived, " the preferable " shows the influence of Roman law and Greek philosophy, both of which contemplated an objective standard of right and wrong which could be discovered by investigation, the Stoic teaching, predominant in Roman law, tending to treat this discovery as intuitive. Unsupported by other evidence, we might hesitate to suggest that *istihsan* necessarily had a Hellenistic basis, but when we compare the ideas of Abu Hanifa with the contemporary teaching of Wasil b. 'Ata (d. 131) in theology, we are forced to the conclusion that the same influences are at work in both, and in Wasil these are certainly derived from Greek philosophy. We are not justified in supposing that Abu Hanifa ever read the Greek philosophers or the Roman law, but he lived at a period when the general principles deduced from these sources were beginning to permeate Muslim thought, though in fact his teaching

tends to limit and define the application of the general principles according to a system. The older Muslims supposed that good and evil depend simply on the arbitrary will of God, who commands and forbids as he sees fit: it was the influence of the Greek philosophy which brought in the idea that these distinctions are not arbitrary but due to some natural difference existing in nature between good and evil and that God is just in that his decrees conform to this standard.

In orthodox Islam there are now four schools of jurisprudence showing allowable differences in the treatment of the canon law. Most absurdly they **are** sometimes described as "sects": this they are not as the differences of opinion are fully recognised as all equally orthodox. The followers of Abu Hanifa form the most numerous of these schools, the other three being all more or less reactionary as compared with it. The contemporary Malik b. Anas (d. 179) was openly actuated by dislike of the admission of *istihsan* and the recognition thereby given to "opinion" for this he substituted what he called *istislah* or "public expediency," allowing analogy to be set aside only when its logical conclusion would be detrimental to the community. The difference seems to be more a verbal correction than a material change, but the underlying motive is clear and indicates an orthodox reaction. At the same time he attached much greater weight to the evidence of tradition, adding to it also the principle of *ijma* or "consensus,"

which in his system meant the common usage of Madina. Undoubtedly Ibn Malik's position was theoretically sound: the Islamic state had taken form at Madina and nothing could give so clear light on the policy of the Prophet and his companions as the local customary law of the mother city. At the same time Ibn Malik took tradition quite seriously, indeed, the critical and scientific treatment of tradition begins with his manual known as the *Muwatta*. To-day Ibn Malik's school prevails in Upper Egypt and North Africa west of Egypt. The third authority *ash-Shafi'i* (d. 204) takes an intermediate position between Abu Hanifa and Ibn Malik, interpreting *ijma* as the general usage of Islam, and not of the city of Madina alone. The fourth authority, *Ahmad b. Hanbal* (d. 241), shows an entirely reactionary position which reverted to a close adherence to Qur'an and tradition ; it carried great weight amongst the orthodox, especially in Baghdad, but now survives only in remote parts of Arabia.

In the sphere of the arts and crafts, our best evidence lies in architecture and engineering. In these the Arabs had no skill and were conscious of their incapacity. The earliest mosques were simply enclosures surrounded by a plain wall, but a new type was developed under the first 'Umayyad Khalif Mu'awiya, who employed Persian non-Muslim builders in the construction of the mosque at Kufa, and they worked on the lines of the architecture already used by the Sasanid kings. In this mosque the traditional square

enclosure was retained, but the quadrangle was surrounded by a cloister in the form of a collonade with pillars 30 cubits high of stone drums held together by iron clamps and lead beddings. From this the cloistered quadrangle became the general type of the congregational mosque and remained so until late Turkish times, when it was partly superseded by the Byzantine domed church. The dome had been used in earlier times only as the covering of a tomb, standing alone or attached to a mosque.

The same Khalif Mu'awiya employed bricks and mortar in restorations which he made at Mecca, and introduced Persian workmen to execute the repairs. In 124 A.H. (A.D. 700) the fifth 'Umayyad Khalif found it necessary to repair the damage caused at Mecca by flood, and for this purpose employed a Christian architect from Syria.

In the time of the next Khalif al-Walid, the " Old Mosque " of Pustat (Cairo), that now known as the " Mosque of 'Amr," was rebuilt by the architect Yahya b. Hanzala, who probably was a Persian. The earlier mosque had been a simple enclosure. The next oldest mosque of Cairo, that of Ibn Tulun (A.H. 283) also had a non-Muslim architect, the Christian Ibn Katib al-Fargani.

Not only in the earlier period, but also in the days of the Abbasids, the Muslims relied exclusively upon Greek and Persian, to a less degree on Coptic, architects, engineers, and craftsmen for building and decoration. In Spain of the 2nd century (8th cen-

ture A.D.) we find the Byzantine Emperor sending a mosaic worker and 320 quintals of tesserae for the adorning of the great mosque at Cordova.

In origin all Muslim art had a Byzantine beginning, but the traditions of Byzantine art received a peculiar direction by passing through a Persian medium, and this medium colours all work done after the close of the 'Umayyad period. Only in the west, in Spain, and to a less degree in North Africa, do we find traces of direct Byzantine influence in later times. But Persian art, as developed under the later Sasanids, was itself derived from Byzantine models, and mainly from models and by craftsmen introduced by Khusraw I. (circ. A.D. 528) ; but even at that early stage there were also some Indian influences apparent in Persian and East-Byzantine work, as, for example, in the use of the horse shoe arch which first appears in Western Asia in the church of Dana on the Euphrates, circ. A.D. 540. But the horse shoe arch in pre-Muslim times, as in India, is purely decorative and is not employed in construction.

Thus it appears that the real work of Islam in art and architecture lay in connecting the various portions of the Muslim world in one common life, so that Syria, Persia, 'Iraq, North Africa, and Spain shared the same influences, which were ultimately Greek or Graeco-Persian, the Indian element, of quite secondary importance, entering directly through Persia. Already before the outspread of Islam, Byzantine art had entirely replaced native models in **Egypt, and**

this was largely the case in Persia as well. At most we can say that Islam evolved a quasi-Byzantine style which owed its distinctive features to the limitations of the Persian artists, but which occasionally attained a better level by the importation of Byzantine craftsmen. Exactly the same general conclusions hold good in the history of the ceramic arts and in the illumination of manuscripts, though here the observance of the Qur'anic prohibition of the portrayal of animal figures, strictly observed only in some quarters and least regarded in Persia and Spain, caused a greater emphasis to be laid on vegetable forms in decoration, and on geometrical patterns.

In the field of science and philosophy, where we get such abundant evidence in the 'Abbasid period, we are left with very little material under the 'Umayyads. We know that the medical school at Alexandria continued to flourish, and we read of one Adfar, a Christian, who was distinguished as a student of the books of Hermes, the occult authority which did most to divert Egyptian science into a magical direction, and we are informed that he was sought out by a young Boman named Morienus (Marianos) who became his pupil and at his master's death retired to a hermitage near Jerusalem. Later on the prince Khalid b. Yazid, of the 'Umayyad family (d. 85 A.H.—704 A.D.) is said to have become the pupil of Marianos and to have studied with him chemistry, medicine, and astronomy. He was the author of three epistles, in one of which he narrated his conversations with

Marianos, another relates the manner in which he studied chemistry, and a third explains the enigmatical allusions employed by his teachers. Long before this medical and scientific studies had passed over to Persia, but Alexandria retained its reputation as the chief centre of such work throughout the 'Umayyad period.

Towards the end of the 'Umayyad age the influence of Hellenistic thought begins to appear in the nature of criticism upon accepted views of Muslim theology. As in jurisprudence, we have no ground for supposing that Muslims at this stage were directly acquainted with Greek material, but general ideas were obtained by intercourse with those who had been long under Hellenistic influences, and especially by intercourse with Christians amongst whom the premises of psychology, metaphysics, and logic had encroached very largely upon the field of theology by the nature of the subjects debated in the Arian, Nestorian, and Monophysite controversies which turned mainly upon psychological and metaphysical problems. The ideas with which the Muslims were brought into contact suggested difficulties in their own theology, as yet only partially formulated, and in religious theories which had taken form in a community entirely ignorant of philosophy. Some of the older fashioned believers met these questions with a plain negative, simply refusing to admit that there was a difficulty or any question for consideration: reason (⁴agl), they said, could not be applied to the revela-

tion of God, and it was alike an innovation to dispute that revelation or to defend it. But others felt the pressure of the questions proposed and, whilst strictly faithful to the statements of the Qur'an, endeavoured to bring their expression into conformity with the principles of philosophy.

The questions first proposed were concerned with (a) the revelation of the Word of God, and (b) the problem of free will.

(a) The Prophet speaks of revelation as " coming down " (*nazala*) from God and refers to the " mother of the book " which seems to designate the unrevealed source from which the revealed words are derived. It may be that this refers to the idea of which the word is the expression, and that in this the Prophet was influenced by Christian or Jewish theories which had originally a Platonic colouring, but it seems probable that he had no very clear theory as to the " mother of the book." At an early date the view arose that the Qur'an had existed, though not expressed in words, that the substance and meaning were eternal as part of the wisdom of God, though it had been put into words in time and then communicated to the Prophet, which is now the orthodox teaching on the basis of Qur. 80. 15. that it was written " by the hands of scribes honoured and righteous," this being taken to mean that it was written at God's dictation by supernatural beings in paradise and afterwards sent down to the Prophet. That is not the necessary meaning of the verse,

which may refer to the previous revelations made to the Jews and Christians which the Prophet regarded as true but afterwards corrupted, so that the Qur'an is simply the pure transcription of Divine Truth imperfectly represented by those earlier revelations. Under the 'Umayyads, when a rigid orthodoxy was taking form in quarters not sympathetic towards the official Khalif, a view arose that the actual words expressed in the Qur'an were co-eternal with God, and it was only the writing down of these words which had taken place in time. It seems probable that this theory of an eternal " word " was suggested by the Christian doctrine of the " Logos." It can be traced primarily to the teaching of St. John Damascene (d. circ. 160 A.H. = A.D. 776) who served as secretary of state under one of the 'Umayyads, either Yazid I I . or Hijam, and his pupil Theodore Abucara (d. 217 -832), who express the relation of the Christian Logos to the Eternal Father in terms very closely resembling those employed in Muslim theology to denote the relation between the Qur'an or revealed word and God. (cf. Von Kremer: *Streifzuege*. pp. 7-9). We know from the extant works of these two Christian writers that theological discussions between Muslims and Christians were by no means uncommon at the time.

The *MuHazilites* of whom *Wasil b. 'Ata* (d. 131) is generally regarded as the founder, were a sect of rationalistic tendencies, and they were opposed to the doctrine of the eternity of the Qur'an and the

claim that it was uncreated because the conclusions to be drawn seemed to them to introduce distinct personalities corresponding to the persons of the Christian Trinity, and in these views they were undoubtedly influenced by the form in which St. John Damascene presented the doctrine of the Trinity, As it was implied that there was an attribute of wisdom possessed by God which was not a thing created by God but eternally with him, and this wisdom may be conceived as not absolutely identical with God but possessed by him, the Mu'tazilites argued that it was something co-eternal with God but other than God, and so an eternal Qur'an was a second person of the Godhead and God was not absolutely one. Al-Muzdar a Mu'tazilite greatly revered as an ascetic, expressly denounces those who believe in an eternal Qur'an as ditheists. The Mu'tazilites called themselves *Ahlu t-Tawhid wa-l-'Adl* " the people of unity and justice," the first part of this title implying that they alone were consistent defenders of the doctrine of the Divine Unity.

(b) As to the freedom or otherwise of the human will, the Qur'an is perfectly definite in its assertion of God's omnipotence and omniscience: all things are known to him and ruled by him, and so human acts and the rewards and punishments due to men must be included : " no misfortune happens either on earth or in yourselves but we made it,—it was in the book " (Qur. 57. 22); " everything have We set down in the clear book of our decrees " (Qur. 36);

" had We pleased We had certainly given to every soul its guidance, but true is the word which hath gone forth from me,—I shall surely fill hell with jinn and men together." (Qur. 32. 13). Yet the appeal for moral conduct implies a certain responsibility, and consequently freedom, on man's part. In the mind of the Prophet, no doubt, the inconsistency between moral obligations and responsibility on the one hand, and the unlimited power of God on the other, had not been perceived, but towards the end of the 'Umayyad period these were pressed to their logical conclusions. On the one side were the *Qadarites* (*qadr* " power "), the advocates of free will. This doctrine first appears in the teaching of *Ma'bad al-Yuhani* (d. 80 A.H.) who is said to have been the pupil of the Persian *Sinbuya* and taught in Damascus. Very little is known of the early *Qadarites*, but it is stated that *Sinbuya* was put to death by the Khalif 'Abdu I-Malik, and that the Khalif Yazid I I . (102-106 A.H.) favoured their views. On the other side were the *Jabarites* (*jabr*, " compulsion ") who preached strict determinism and were founded by the Persian *Jahm b. Safwan* (d. circ. 130). It is baseless to argue that either free will or determinism were necessarily due to Persian pre-Islamic beliefs, it is evident that the logical deduction of doctrinal theology in either direction was done by Persians; they were, indeed, the theologians of early Islam. It must be noted that the full development of fatalism was not reached until a full century after the foundation of Islam and that

its first exponent was put to death as a heretic.

The earlier Qadarites had a Persian origin, but the reaction against the Jabarites was led by Wasil b. 'Ata whose teaching clearly shows the solvent force of Hellenistic philosophy acting on Muslim theology. Wasil was the pupil of the Qadarite Hasan ibn Abi 1-Hasan (d. 110) but he "seceded" from his teacher and this is given as the traditional reason for calling him and his followers the *MuHazila* or "secession," and did so on the ground of the apparant injustice imputed to God in his apportionment of rewards and penalties. The details of the controversy are quite secondary, the important point is that the Mu'tazilites claimed to be "the people of Unity and Justice," this latter meaning that God conformed to an objective standard of just and right action so that he could not be conceived as acting arbitrarily and in disregard of justice, an idea borrowed from Hellenistic philosophy for the older Muslim conception regarded God as acting as he willed and the standard of right and wrong merely a dependent on his will.

Throughout the whole 'Umayyad period we see the conquering Arabs, so far the rulers of the Muslim world, in contact with those who, though treated with arrogant contempt as serfs, were really in possession of a much fuller culture than their rulers. In spite of the haughty attitude of the Arab there was a considerable exchange of thought, and the community of Islam began to absorb Hellenistic influences in several directions, and so the canon law and theology

of the Muslims was beginning, at the end of the 'Umayyad period, to be leavened by Greek thought. It was, however, a period of indirect influence; there is no indication, save in a few instances in the study of natural science and medicine, of Muslim teachers or students availing themselves directly of Greek material, but only that they were in contact with those who were familiar with the work of Greek philosophers and jurists. It was a period of suspended animation, to some extent, during which a new language and a new religion were being assimilated by the very diverse elements now comprised in the Khalifate, and those elements were being welded together in a common life. However great were the sectarian and political differences of later times, the church of Islam long remained, and to a great extent still remains, possessed with a common life in the sense that there is a mutual understanding between the several parts and that thus an intellectual or religious influence has been able to pass rapidly from one extreme to the other, and the religious duty of pilgrimage to Mecca has done much to foster this community of life and to promote intercourse between the several parts. Such an understanding has by no means always produced sympathy or friendliness, and the various movements as they have passed from one part to the other have often been considerably modified in the passage; but the motive power behind a movement in Persia has been intelligible in Muslim Spain—though perhaps intensely disliked

there—and most often a movement beginning in any one district has sooner or later had some contact with every other district. There is no such division in Islam as that which prevents the average English churchman from knowing about and appreciating a religious movement at work in the Coptic or Serbian church. The common life of Islam is largely based on the use of the Arabic language as the medium of daily life, or at least of prayer and the medium of scholarship, and this was extremely effective before the inclusion of large Turkish and Indian elements which have never really become Arabic speaking. It was this which made the Arabic speaking community of Islam so favourable a medium of cultural transmission. The 'Umayyad period was a marking time during which this common life was being evolved, and with it was evolved necessarily the bitterness of sectarian and faction divisions which always result when divergent types are in too close contact with one another.

CHAPTER III

THE COMING OF THE 'ABBASIDS

The rule of the 'Umayyads had been a period of tyrannical oppression on the part of the Arab **rulers** upon their non-Arab subjects and especially upon **the mawali** or converts drawn from the native population of the conquered provinces who not only were not admitted to equality, as was the professed principle of the religion of Islam, but were treated simply as serfs. This was in no sense due to religious persecution, for it was the converts who were the most aggrieved, nor was it due to a racial antipathy as between a Semitic and an Aryan people, nor yet to anything that could be described as a " national " feeling on the part of the Persians and other conquered races, **but** simply a species of " class " feeling due to the contempt felt by the Arabs for those whom they **had** conquered and hatred on the part of the conquered towards their arrogant masters, a hatred intensified by disgust at their misgovernment and ignorance of the traditions of civilization. There were other causes also which helped to intensify this feeling of hatred especially in the case of the Persians- Amongst these was a semi-religious feeling, even amongst those who had become converts to Islam. **It had been the**

old usage of the Persians to regard the Sasanid kings, the descendants of the legendary *kayani* dynasty of heroes who had first established a settled community in Persia, as *bagh* not quite perhaps what we should understand as "gods," but rather as incarnations of deity, the divine spirit passing on by transmigration from one ruler to another, and so they ascribed to the king miraculous powers and worshipped him as the shrine of a divine presence. At the Muslim conquest the Sasanid kings had not only ceased to rule, but the dynasty had become extinct. Many of the Persians who, in spite of adopting Islam, still clung to their old ideas, were quite ready to treat the Khalif with the same adoration as their kings, but felt a distinct distaste for the theory of the Khalifate according to which the Khalif was no more than a chieftain elected in the democratic fashion of the desert tribes, a thing which seemed to them like reversion to primitive barbarism. Our own experience in dealing with oriental races has shown us that there is a great deal which must be taken seriously in ideas of this kind. Of course those who had been subjects of the Boman Empire had no inclination towards deifying their rulers, unless perhaps some who had been only recently incorporated from more oriental elements : but those who had been under Persian rule craved a deified prince. In A.H. 141-142 this took the form of an attempt to deify the Khalif by a fanatical sect of Persian origin known as the Eawan-diyya which broke out into open revolt when **the**

Khalif refused to be treated as a god and cast their leaders into prison: the members of the sect, and many other of their fellow-countrymen, considered that a Khalif was no valid sovereign who refused to be recognised as a deity. From the second century of the Hijra down to modern times there has been a continuous stream of pseudo-prophets who have claimed to be gods, or successful leaders who have been deified by their followers. The latest of these appears in the earlier phases of the Babi movement, A.D. 1844-1852, though the doctrines of re-incarnation and of the presence of the divine spirit in the leader seem to be less emphasized in present day Babism, at least in this country and America.

The most prevalent form of these ideas occurs in the essentially Persian movement known as the *Shi'a* or ⁴⁴ "schismatics." These are divided into two types, both alike holding that the succession of the Prophet is confined to the hereditary descendants of 'Ali the cousin and son-in-law of the Prophet to whom alone was given the divine right of the *Imamate* or leadership. The two types differ in the meaning of this *Imamate*, the one group contenting itself with maintaining that ⁴Ali and his descendants have a divine authority whereby the Imams are the only legitimate rulers of Islam and its infallible guides ; of this moderate type of *Shi'a* is the religion of Morocco and the form prevalent about San'a in South Arabia. The other group presses the claim that the Imam is the incarnation of a divine spirit,

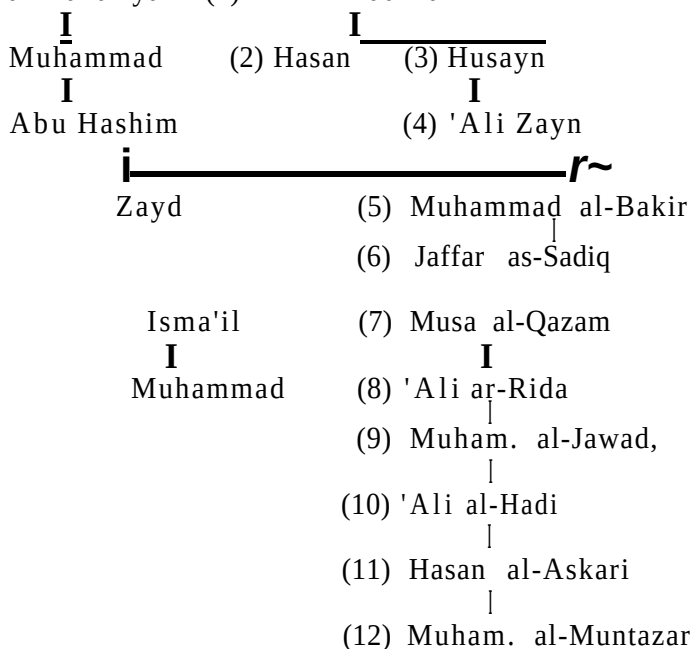
sometimes asserting that it was only by fraud that the prophet Muhammad interposed and acted as spokesman for the divine Imam 'Ali. Of this type is the Shi'a which forms the state religion of modern Persia, spreading westwards into Mesopotamia and eastwards into India. The commonest belief, prevalent in the modern Shi'a, is that there were twelve Imams of whom 'Ali was the first, and Muhammad al-Muntazar, who succeeded at the death of his father the eleventh Imam al-Hasan al-Askari in 260 A.H. (=A.D. 873) was the last. Soon after his accession Muhammad Al-Muntazar "vanished" at Samarra, the town which served as the 'Abbasid capital from A.H. 222 to 279. The mosque at Samarra is said to cover an underground vault into which he disappeared and from which he will emerge again to resume his office when the propitious time has arrived, and the place whence he is to issue forth is one of the sacred spots visited by Shi'ite pilgrims. Meanwhile the Shahs and princes are ruling the faithful only as deputies of the concealed Imam. The disappearance of Muhammad al-Muntazar took place more than a century after the fall of the 'Umayyads but we have anticipated in order to show the general tendency of the Shi'ite ideas which were prevalent even in 'Umayyad times, especially in Northern Persia, and did much to promote the revolt against the secularised 'Umayyad rule.

A curious importance also is attached to the date. The disaffection of the *mawali* came to a head towards

the end of the first century of the Muslim era. **There** was a general belief that the completion of the century would see the end of existing conditions, just as in Western Europe the year 1000 A.D. was expected to mark the dawn of a new world. Dissatisfaction was at its height, especially in Khurasan, and the disaffected for the most part rallied round the 'Alids.

The 'Alid claims which did so much to overthrow the 'Umayyad dynasty and indirectly led to the bringing forward of the Persian element by which the transmission of Hellenistic culture was most furthered, are best understood by the help of a genealogical table.

al-Hanafiya + (1) 'Ali + Patima



'Ali had two wives, (i) al-Hanafiya, by whom he had a son Muhammad, and (ii) Fatima, the daughter of the Prophet Muhammad, by whom he had two sons, Hasan and Husayn. All the ⁴Alid party believed that 'Ali should have succeeded the Prophet by divine right and regarded the first three Khalifs as usurpers. Already under the third Khalif Uthman the dissatisfied *mawla* element had begun to look to 'Ali as their champion, and he in the true spirit of early Islam supported their claim to the rights of brotherhood as fellow Muslims. This partisanship received its extreme expression in the preaching of the Jewish convert 'Abdu b. Saba, who declared the divine right of 'Ali to the Khalifate as early as A.H. 32. 'Ali himself apparently did not take so pronounced a view, but certainly regarded himself as in some degree injured by his exclusion. In 35 'Ali was appointed Khalif and Ibn Saba then declared that he was not only Khalif by divine right, but that a divine spirit had passed from the Prophet to him, so that he was raised to a supernatural level. This theory 'Ali himself repudiated. When he was assassinated in 40 'Abdu declared that his martyred soul had passed to heaven and would in due course descend to earth again: his spirit was in the clouds, his voice was heard in the thunder, the lightning was his rod.

The Umayyad party led by Mu'awiya never submitted to 'Ali, although they did not question the legitimacy of his appointment. At his death Mu'awiya became the fifth Khalif, but had to face the

claims of al-Hasan, 'Ali's son. Al-Hasan made terms with Mu'awiya and died in 49, poisoned, it was commonly stated. The other son, al-Husayn, tried to enforce his claim, but met a tragic death at Kerbela. After al-Husayn's death -some of the 'Alid partisans recognised Muhammad the son of 'Ali and al-Hanafiya as the fourth Imam; he, it is true, disowned these supporters, but that was a detail to which they paid no attention. His supporters were known as Kaysanites, and owed their origin to Kaysan, a freedman of 'Ali, who formed a society for the purpose of avenging the deaths of al-Hasan and al-Husayn. When this Muhammad died in 81 his followers divided into two sections, some accepting the fact of his death, others supposing that he had simply passed into concealment to appear again in due course. This idea of a "concealed" Imam was a heritage from the older religious theories of Persia and recurs again and again in Shi'a history. The important point is that both sections of this party continued to exist all through the 'Umayyad period, steadily refusing to recognise the official Khalifa as more than usurpers, and looking forward to the day when they could avenge the martyrdom of ⁴Ali and his sons.

We need not linger over the family of al-Hasan and his descendants. They were involved in 'Alid risings at Madinna, and after the suppression of one of these in 169, long after the fall of the 'Umayyads, Idris the great-grandson of al-Hasan escaped to the far West and established a "moderate" Shi'ite

Dynasty in what is now Morocco, so that the subsequent history of that house concerns the history of the West.

Most of the Shi'ites regard the third Imam al-Husayn as being succeeded by his son 'Ali Zayn. Al-Husayn, like al-Hasan, was not only the son of •Ali, but also of the Prophet's daughter, Patima. In al-Husayn's case moreover there was another heritage which ultimately proved more important than descent from either 'Ali or Fatima : he was generally supposed to have married the daughter of the last of the Persian kings, the " mother of the Imams," and this traditional marriage with the Persian princess,—its historical evidence is very dubious—has been regarded by the Persian Shi'ites as the most important factor in the Imamate, although this, of course, has nothing whatever to do with the religion of Islam. That so great weight could be attached to such a consideration serves to show how really foreign and non-Muslim a thing the Shi'a is, 'Ali Zayn had two sons, Zayd and Muhammad al-Bakir. Of these Zayd was a pupil of Wasil b. 'Ata and associated with the Mu'tazilite movement: he is generally regarded as a rationalist. Indeed, as we shall now see frequently, the heretical Shi'ite party was very generally mixed up with free thought and frequently shows adherence to Greek philosophy: it seems as though its inspiring spirit was hostility towards orthodox Islam, and a readiness to ally itself with anything which tended to criticize unfavourably the orthodox doctrines.

Zayd had a body of followers who established themselves in North Persia where they held their own **for** some time, and a branch of their party still exists in South Arabia, still suspected of rationalist proclivities. Most of the Shi'ites, however, recognised Muhammad al-Bakir as the fifth Imam, and Ja'far as-Sadiq as the sixth. This latter also was a devoted follower of the "new learning," that is to say, of Hellenistic philosophy, and is generally regarded as the founder, or at least the chief exponent, of what are known as *batinite* views, that is to say the allegorical interpretation of the Qur'an, so that revelation is made to mean, not the literal statement, but an inner meaning, and this inner meaning generally shows a strong influence of Hellenistic philosophy. It is only the divinely directed Imam who can expound the true meaning of the Qur'an which remains a sealed book to the uninitiated. Ja'far was, it would appear, the first of the 'Alids who openly asserted that he was a divine incarnation as well as an inspired teacher: his predecessors had done no more than acquiesce in such claims when made by their followers, and **very** often had repudiated them.

Abu Hashim, the son of Muhammad b. al-Hanafiya, died in 98 A.H. poisoned, it was generally believed, by the Khalif Sulayman, and bequeathed his rights to Muhammad b. 'Ali b. 'Abdullah, a descendant of the house of Hashim, to which the Prophet and 'Ali had belonged, the rival clan of the Quraysh tribe opposed to the clan of the 'Umayyads. Abu Hashim assumed

that the Imamate was his to be passed on to whom he saw fit, a view of the Imamate which was not accepted by the stricter Shi'ites who were legitimists, but the partisans of Abu Hashim do not seem to have been extremists in spite of their Kaysanite origin. In 99 the Khalifate passed to Umar II. the one 'Umayyad who showed 'Alid sympathies, putting an end to the public cursing of 'Ali which had formed part of the public ritual in the mosques of Damascus since the days of Mu'awiya and who represented a type of personal piety to which the 'Umayyad Khalifs had hitherto been strangers. His brief reign of less than three years did not, however, remove the evils of tyranny and misgovernment, and he was followed by other rulers more in conformity with the old bad type.

About the time of Umar's death a deputation of Shi'ites waited upon Muhammad b. 'Ali the Hashimite, a man of noted piety and the one who had now become, as legatee of Abu Hashim the son of Muhammad b. al-Hanafiya, the recognised head of an important wing of the Shi'ites, and swore to support him in an endeavour to obtain the Khalifate " that God may quicken justice and destroy oppression " (Dinwari: *Akhbaru t-Tiwal*. ed. Guirgass, Leiden, p. 334): and Muhammad had answered that " this is the season of what we hope and desire, because one hundred years of the calendar are completed " (id.)

The supporters of the family of Muhammad b. al-Hanafiya, who had now transferred their allegiance to

Muhammad b. 'Ali, were extremely important, not so much by reason of their numbers as by their excellent organisation. They had developed a regular system of missionaries (*da'i*, plur. *du'at*) who travelled under the guise of merchants and confined their teaching to private instructions and informal intercourse, a method which has become the standard type of Muslim missionary propaganda. By Abu Hashim's death and legacy Muhammad b. 'Ali found this very fully organised missionary work at his service, and its emissaries were fully confident that his acceptance of the overtures of the Shi'ite deputation meant that he stood as the champion of Shi'ite claims. The stricter Shi'ites who followed the house of al-Husayn did not admit the claims of Muhammad b. al-Hanafiya or his descendants, but they supported Muhammad b. 'Ali's efforts under the impression that he was a Shi'ite champion.

The propaganda in favour of Muhammad b. ⁴Ali is sometimes referred to as 'Abbasid because he was descended from al-'Abbas, one of the three sons of 'Abdu I-Muttalib, and so brother of Abu Talib the father of the Imam 'Ali and of 'Abdullah who was grandfather of the Prophet Muhammad. At the time, however, the missionaries claimed rather to be the supporters of the Hashimites, a term which was ambiguous, perhaps intentionally so. It was afterwards explained as referring to the house of Hashim which was the rival clan of the Quraysh opposed to the 'Umayyads and that to which the Prophet, and 'Ali,

and al-'Abbas belonged : but in the minds of **many of** the Shi'ites it was taken to mean the followers of **Abu** Hashim, the grandson of Al-Hanafiya.

Muhammad b. 'Ali died in 126 A.H. leaving three sons, Ibrahim, Abu l-Abbas, and Abu Ja'far, the first of these being recognised as his successor. About the same time Abu Muslim, who became governor of Khurasan in 129 comes into prominence. It is dubious whether he was an Arab or a native of 'Iraq (cf. Masudi. vi. 59), indeed, the claim was made that he was a descendant of Gandarz, one of the ancient kings of Persia (id.) Now Khurasan was the area most disaffected towards the 'Umayyads, and there the Hashimite missionaries had been most active and successful. Abu Muslim threw himself into this work heartily and began gathering together an armed body of men who before long numbered 200,000. Information and warning was sent to the Khalif Marwan II. but was ignored : indeed the court at Damascus took no notice until 130. Abu Muslim at length openly raised the black standard as the signal of revolt against the 'Umayyads whose official colour was white. Then all the Khalif did was to seize Muhammad b. 'Ali's son Ibrahim and put him to death. The other two sons escaped and fled to Kufa where they were sheltered and concealed by some Shi'ites, the second son Abu l-'abbas, known to history as *as-Saffah* " **the** butcher " being recognised as the Hashimite leader.

Abu Muslim's success was rapid and complete, **and** in 132 the 'Umayyad dynasty was overthrown **and**

partly exterminated, and so "the butcher" became **the** first of the 'Abbasid Ehalifs, so called as being of the family of al-'Abbas the son of 'Abdu l-Muttalib.

As soon as the Ehalif Abu l-'Abbas was seated on the throne his chief aim was to secure the establishment of his dynasty by getting rid of all possible rivals, and it was the vigour he showed in doing this which earned for him the title of "the Butcher." First of all he hunted down and slew all the representatives he could find of the 'Umayyad family. One of these escaped, 'Abdu r-Eahman, and went to Africa where he endeavoured to form a body of supporters without success, and then crossed over to Spain where in 138 he established himself at Cordova, and there he and his descendants ruled until 422 A.H. These Spanish 'Umayyads claimed to be legitimist rulers, but never assumed the divine claims of the 'Alid section.

Abu Muslim, who had done most to establish the 'Umayyad dynasty, next provoked the Khalif's jealousy, probably with good cause for he was indignant to find that "the Butcher" was no sooner on the throne than he entirely discarded the Shi'ites who had helped to place him there, and so within the first year of the 'Abbasid rule Abu Muslim was put to death.

The fall of the 'Umayyads brought an end to the tyranny of the Arab minority, as it now was, **and** placed the preponderance for a clear century (A.H. 132-232) in Persian hands. The government **was**

remodelled on Persian lines, and to Persian influence was due the institution of the *wazir* or responsible minister at the head of the executive. The title is probably identical with the Old Persian *vi-chir* or "overseer" (thus Darmesteter: *Etudes Iraniennes* i. p. 58. note 3.); before this the chief minister was simply clerk (*katib*) or adviser (*mushir*) and was simply one of the Khalifs attendants who was employed to conduct correspondence, or to give advice when occasion required. In 135 the noble Persian family of Barmecides began to supply *wazirs*, and these controlled the policy of the Ehalifate until 189. From the time of al-Mansur (A.H. 136-158) onwards the Persians began to assert their pre-eminence and a party was formed known as the *Shu'ubiyya* or "anti-Arab party" of those who held, not only that the alien converts were equal to the Arabs, but that the Arabs were a half savage and inferior race in all respects, contrasting unfavourably with the Persians, Syrians, and Copts. This party produced considerable mass of controversial literature in which free course was given to the general dislike felt towards the Arabs and which reveals the intensity of the contempt and hatred felt towards these parvenus. The Arabs had boasted of their racial descent and had devoted much attention to the keeping of their genealogies, at least in the century immediately preceding the rise of Islam; as they had then only just commenced to count descent in the father's line these genealogies were purely fictitious in so far as they dealt with pre-

Islamic ancestors. The Arabs were in fact a parvenu people only just emerging out of barbarism (cf, Lammens: *Le berceau de l'islam*. p. 117). But the Persians, no less careful about genealogical records, to which their caste system had caused them to pay considerable attention, boasted authentic genealogies of much greater antiquity. In literature, in science, in Muslim canon law, in theology, and even in the scientific treatment of Arabic grammar, the Persians very rapidly surpassed the Arabs, so that we must be careful always to refer to Arabic philosophy, Arabic science, etc., in the history of Muslim culture, rather than to Arab philosophy, etc., remembering that, though expressed in the Arabic language, the common medium of all the Muslim world, only in a very few cases was it the work of Arabs : for the most part the Arabic philosophers and scientists, historians, grammarians, theologians, and jurists were Persians, Turks, or Berbers by birth, though using the Arabic language. The fall of the 'Umayyads and the replacing of the Arabs by the Persians commences the 'golden age of Arabic literature and scholarship. The older Arabic literature, that namely which was written by Arabs as yet untouched by external influences, consists entirely of poetry, the work of professional bards who sing of desert life and warfare, lament over the deserted camping grounds, boast of their tribe, and abuse their enemies. It forms a distinct class of poetic composition, which has developed its own literary standards, and attained a high standard of

excellence in its way. In many respects this **older Arab** poetry makes a special appeal to us, it shows an observation of nature which is very striking, it has an undercurrent of melancholy which seems an echo of the desert, and an emotional side which seems convincing in its reality. At the same time it has very distinct limitations in its range of interest and subject matter. Undoubtedly a careful study of this early Arab poetry is a necessary preparation for a proper appreciation of the literary forms of Arabic and of its oldest vocabulary and syntax, and of recent years much attention has been given to it. But this older Arabic poetry, apparently a native production, but possibly influenced in pre-Islamic times by some external contacts as yet undefined, comes to an end soon after the fall of the 'Umayyads, save in Spain, where, under the exiled and fugitive remnant of the 'Umayyad dynasty, the production of such poetry survived. But this type of poetry is really outside our present enquiry, save to note that it was a Persian scholar, Hammad b. Sabur ar-Eawiya (d. circ. 156-159) who collected and edited the seven ancient Arabic poems known as the *Mu'allaqat* or "suspended," i.e., the catena or series, and thus set what may be called the classical standard of the ancient poetry and vocabulary. At the accession of the Abbasids the old Arab type passes away and the intellectual guidance of the Muslim community passes into the hands of **the Persians**.

CHAPTER IV

THE TRANSLATIONS

One of the first and most significant indications of the new orientation of Muslim thought was the extensive production of Arabic translations of works dealing with philosophical and scientific subjects, with the result that eighty years after the fall of the 'Umayyads the Arabic speaking world possessed Arabic translations of the greater part of the works of Aristotle, of the leading neo-Platonic commentators, of some of the works of Plato, of the greater part of the works of Galen, and portions of other medical writers and their commentators, as well as of other Greek scientific works and of various Indian and Persian writings. This period of activity in translating falls into two stages, the first from the accession of the Abbasids to the accession of al-Ma'mun (A.H. 132-198), when a large amount of work was done by various independent translators, largely Christians, Jews, and recent converts from non-Islamic religions ; the second under al-Ma'mun and his immediate successors, when the work of translation mainly centered in the academy newly founded at Baghdad, and a consistent effort was made to render the material necessary for philosophical and scientific research available for the Arabic speaking student.

The earlier translation work is especially associated with '*Abdullah b. al-Muqaffa*', a native of Fars and originally a Zoroastrian, who made his profession of faith before a brother of Muhammad b. 'Ali, the father of as-Saffah, and became his secretary. Presuming on his employer's protection he ventured to make derisive and impertinent remarks to Arab dignitaries and especially to Sufyan, the governor of Basra, whom he used to salute with a lewd jest against his mother's chastity. It seems that men of Arab birth who held political office under the early 'Abbasids often had to put up with such insults from the ex-serfs. After an unsuccessful attempt at revolt by another of the Khalif's uncles Ibn al-Muqaffa' was directed to prepare a draft letter of pardon to be presented to the Khalif al-Mansur, who succeeded his brother as-Saffah, for his official seal, but he drew up the letter in such terms as to arouse the Khalif's indignation; amongst other things the letter said, "if at any time the Commander of the Faithful act perfidiously towards his uncle 'Abdullah b. 'Ali, his wives shall be divorced from him, his horses shall be confiscated for the service of God (in war), his slaves shall become free, and the Muslims loosed from their allegiance to him." The Khalif enquired who had prepared this letter and on being informed directed Sufyan to put him to death. Pleased thus to gratify his personal rancour the governor of Basra executed Ibn al-Muqaffa' with great cruelty, though the details differ in different accounts, in A.H. 142 or 143.

Although conforming to Islam, Ibn al-Muqaffa was generally regarded as a *Zindiq*, a term properly signifying a Manichean but used loosely by the Arabic writers to denote a member of one of the Persian religions who professed outward conformity to Islam, but "secretly adhered to his own creed, or as a term of abuse to denote a heretic of any sort. The word itself is a Persian rendering of *siddiq* or "initiate," a title assumed by full members of the Manichaeen sect. It implies the possession of esoteric knowledge and from this idea rose the practice common amongst the Shi'ite sects of concealing their real beliefs from general profession and assuming the external appearance of orthodoxy. Masudi (viii. 293) states that "many heresies arose after the publication of the works of Mani, Ibn Daysan, and Marcion translated from Persian and Pahlawi into Arabic by 'Abdullah b. al-Muqaffa' and others." Under al-Mansur and by his orders, translations were made from Greek, Syriac, and Persian, the Syriac and Persian books being themselves translations from Greek or Sanskrit. The best known work of Ibn Muqaffa, was the translation of the *Kalila wa-Dimna* or "Fables of Bidpai" from the Old Persian which was itself a translation from the Sanskrit. Ibn al-Muqaffa's translation into Arabic is generally regarded as a standard model of Arabic prose. The Persian original is lost, but a version in Syriac made from it by the Nestorian missionary Budh, about A.D. 570, is extant and has been published (ed. Bickell and Benfey.

1876); the Sanskrit original also is lost in what was presumably its earlier form, but we find its material in a much expanded form in two Sanskrit books, (i) in the *Panchatantra*, which contains the stories which appear as 5, 7, 8, 9, 10, 17, of de Sacy's Arabic text, and (ii) the *Mahabharata*, which contains chapters 11, 12, 13. Evidently the old Syriac of Budh, a translation of the Persian translation of the original, is the best representative of the older form of the text. The Arabic version of Ibn al-Muqaffa⁴ shows a number of interpolations and additions which all, of course, appear in the derived versions, in the later Syriac, the several mediaeval Persian translations which are made from the Arabic and not from the old Persian, and in the numerous Latin, Hebrew, Spanish, Persian, and Greek versions. It was this Arabic translation which gave to the book a wider circulation than possessed before or than it could ever have had, and introduced it to the western world. The case was exactly parallel with Aristotle and similar material: Arabic became a medium of extremely wide transmission and the additions made as material passed through Arabic received a wide circulation also.

Ibn Muqaffa⁴ lived in the reign of al-Mansur and during that same period we are told (Masudi. viii. 291-2) that Arabic versions were made of several treatises of Aristotle, of the *almajasta* of Ptolemy, of the book of Euclid, and other material from the Greek. About 156 A.H. an Indian traveller brought to Baghdad a treatise on arithmetic and another on

astronomy: the astronomical treatise was the *Siddhanta* which came to be known to the Arabic writers as the *Sindhind*, it was translated by Ibrahim al-Fazari and opened up a new interest in astronomical studies : some little time afterwards Muhammad b. Musa al-Kharizmi combined the Greek and Indian systems of astronomy, and from this time forth the subject takes a prominent place in Arabic studies. The great Arabic astronomers belong to a later generation, such as Abu Ma'shar of Baghdad, the pupil of al-Kindi, who died in A.H. 272 (= A.D. 885), known to the Latin mediaeval writers as " Abumazar," and Muhammad b. Jabir b. Sinan al-Battani (d. 317 A.H. - A.D. 929) who was known as " Albategnius." The Indian work on arithmetic was even more important as by its means the Indian numerals were introduced, to be passed on in due course as " Arabic " numerals, and this decimal system of numbering has made possible an extension of arithmetical processes and indeed of mathematics generally which would have been difficult with any of the older and more cumbersome systems.

Al-Mansur, after founding Baghdad in A.H. 148 (= A.D. 765) summoned a Nestorian physician, George Boktishu⁴, from the school at Junde-Shapur and established him a court physician, and from this time there was a series of Nestorian physicians connected with the court and forming a medical school at Baghdad. George fell ill in Baghdad and was allowed to retire to Junde-Shapur, his place being

taken by his pupil Issa b. Thakerbokht, who was the author of a book on therapeutics. Later came Bokhtishu' son of George who was physician to Harunur-Kashid in 171 (=A.D. 787), and then Gabriel, another son of George, who was sent to attend Ja'far the Barmecide in 175 and stood high in Harun's favour : he wrote an introduction to logic, a letter to al-Ma'mun on foods and drinks, a manual of medicine based on Dioscorus, Galen, and Paul of Aegina, medical pandects, a treatise on perfumes, and other works. In medicine, as will be remembered, the Indian system had been introduced at Junde-Shapur and combined with the Greek, but the latter clearly predominated. Another important settler in Baghdad was the Jewish Syrian physician John bar Maserjoye, who translated the *Syntagma* of Aaron into Syriac and presided over the medical school gathered in the Muslim capital. For a long time the Arabic work in medicine was limited to translation of the great Greek authorities and practice on the lines learned in Alexandria. We have already referred to the unfortunate influence derived from the Egyptian school which diverted both medicine and chemistry into semi-magical lines, an evil tendency from which the Arabic school never quite freed itself. A considerable time elapsed before the Arabic speaking community produced any original writers on medicine. About the end of the third century we find Abu 1-Abbas Ahmad b. Thayib as-Sarakhsi, a pupil of al-Kindi, who is stated to have written a treatise on the

soul, an abridgment of Porphyry's *Isagoge*, and an introductory manual of medicine (Masudi. ii. 72). At that time medical studies were still very largely in Christian and Jewish hands, and we find the Syriac physician John ben Serapion (end of 9th cent. A.D.) writing in Syriac medical pandects which were circulated in two editions, the latter of which was translated into Arabic by several writers independently and long afterwards into Latin by Gerard of Cremona.

The father of Arabic medicine proper was Abu Bakr Muhammad b. Zakariyya ar-Eazi (d. A.H. 311-320 = A.D. 923-932) who was known to Latin mediaeval writers as "Bazes," a student of music, philosophy, literature, and finally medicine. In his medical pandects he uses both Greek and Indian authorities, and the introduction of these latter in subordination to the classic authorities used at Alexandria was the really important contribution made by the Arabic students to the progress of science. Unfortunately ar-Eazi's work suffered from the defect that it greatly lacks order and arrangement, it is a collection of more or less separate treatises, and so not at all convenient to use. For this reason more perhaps than any other he was replaced by Ibn Sina (Avicenna) whose work, if anything, errs in the opposite direction and suffers from an extremely elaborate arrangement and systematization. It will be noticed that with the Arabic writers, as with their Syriac predecessors, the leading medical

writers were usually also exponents of logic **and** commentators on Aristotle as well as Galen.

The Khalif al-Mansur was the patron who did most to attract the Nestorian physicians to the city of Baghdad which he had founded, and he was also a prince who did much to encourage those who set themselves to prepare Arabic translations of Greek, Syriac, and Persian works. Still more important was the patronage given by the Khalif al-Ma'mun who in A.H. 217 (= A.D. 832) founded a school at Baghdad, suggested no doubt by the Nestorians and Zoroastrian schools already existing, and this he called the *Bayt al-Hikma* or "House of Wisdom," and this he placed under the guidance of Yahya b. Masawaih (d. A.H. 243 = A.D. 857), who was an author both in Syriac and Arabic, and learned also in the use of Greek. His medical treatise on "Fevers" was long in repute and was afterwards translated into Latin and into Hebrew.

The most important work of the academy however was done by Yahya's pupils and successors, especially *Abu Zayd Hunayn b. Ishaq al-Idadi* (d. 263 A.H. - A.D. 876), the Nestorian physician to whom we have already referred as translating into Syriac the chief medical authorities as well as parts of Aristotle's *Organon*. After studying at Baghdad under Yahya he visited Alexandria and returned, not only with the training given at what was then the first medical school, but with a good knowledge of Greek which he employed in making translations in Syriac and Arabic.

With him were associated his son Ishaq and his nephew Hubaysh. Hunayn prepared Arabic translations of Euclid; of various portions of Galen, Hippocrates, Archimedes, Apollonius, and others, as well as of the Eepublic Laws, and Timseus of Plato, the Categories, Physics, and Magna Moralia of Aristotle, and the commentary of Themistius on book 30 of the Metaphysics, as well as an Arabic translation of the Bible. He also translated the spurious Mineralogy of Aristotle, which long served as one of the leading authorities on chemistry, and the medical pandects of Paul of Aegina. His son, besides original works on medicine, produced Arabic versions of the Sophist of Plato, the Metaphysics, *de anima*, *-de generatione et de corruptione*, and the Hermeneutica of Aristotle which Hunayn had translated into Syriac, as well as some of the commentaries of Porphyry, Alexander of Aphrodisias, and Ammonius. A little later we find the Syrian Christian Questa b. Luqa, a native of Ba'albek, who had studied in Greece, prominent as a translator.

The fourth century A.H. was the golden period of the Arabic translators, and it is worth noting that, although the work was done chiefly by Syriac speaking Christians, and inspired by Syriac tradition a very large number of the translations were made directly from the Greek, by men who had studied the language in Alexandria or Greece ; very often the same scholar made Syriac and Arabic translations from the Greek text. There were also translators from the Syriac, but

these usually come after the translators from the Greek. Amongst the Nestorian translators from Syriac was *Abu Bislir Malta b. Yunus* (d. 328 A.H. =»A.D. 939), who rendered into Arabic the *Analytica Posteriora* and the poetics of Aristotle, Alexander of Aphrodisias' commentary on the *de generatione et de corruptione*, and Themistius' commentary on book 30 of the *Metaphysics*, all from the existing Syriac versions. He was also the author of original commentaries on Aristotle's *Categories* and the *Isagoge* of Porphyry.

The Jacobite translators come on the scene after the Nestorians. Amongst the Jacobites translating from Syriac to Arabic we find *Yahya b. Adi* of Takrit (d. 364), a pupil of Hunayn, who revised many of the existing versions and prepared translations of Aristotle's *Categories*, *Sophist. Elench.*, *Poetics*, and *Metaphysics*, Plato's *Laws* and *Timaeus*, as well as Alexander of Aphrodisias' commentary on the *Categories* and Theophrastus on the *Moralia*. The Jacobite *Abu 'Ali Isa b. Zaraah* (d. 398) translated the *Categories*, the *Katural History*, and the *de partibus animalium*, with the commentary of John Philoponus.

This is a convenient place to summarize briefly the range of Aristotelian material available to Arabic students of philosophy. The whole of the logical *Organon* was accessible in Arabic, and in this were included the *Bhetric* and *Poetics*, as well as Porphyry's *Isagoge*. Of the works on natural science they had the *Physica*, *de coelo*, *de generatione*

et corruptione, de sensu, the *Historia animalium*, the **spurious** *Meteorologia*, and the *de anima*. On mental **and** moral science they had the *Metaphysics*, the *Nicomachean Ethics* and the *Magna Moralia*. Strangely enough the *Politics* was not included in the Aristotelian canon, its place being taken by Plato's *Laws* or *Republic*. Besides these the Arabic students accepted as Aristotelian a *Mineralogy*, of which we have no knowledge, and a *Mechanics*.

Of these the logical *Organon* always remained the basis of a humane education, side by side with the indigenous study of grammar, and this essentially logical basis of education seems to have been influenced by the example of the existing system developed amongst the Syrians, although it must be remembered a similar system was developed quite independently in Latin scholasticism prior to the earliest contact with the Arabic writers. The Aristotelian logic has always remained an orthodox and generally accepted science. The philosophical and theological controversies and the developments produced by the Arabic philosophers centred mainly in questions of metaphysics and psychology, and **so** were particularly concerned with the 12th book of *Metaphysics* and the treatise *de anima*, more especially the 3rd book. As we have already noted the psychology of Aristotle was interpreted in the light of Alexander of Aphrodisias' commentary, and thus received a theistic and supernatural colouring which receives its fuller development in neo-Platonic teaching.

Most important in the fuller development of this neo-Platonic doctrine was the so-called *Theology of Aristotle* which appeared in Arabic about 226 A.H. It was in fact an abridged paraphrase of the last three books (iv-vi) of the *Enneads* of Plotinus made by Naymah of Emessa, boldly circulated and generally received as a genuine work of Aristotle. It might be regarded as a literary fraud, but it is quite possible that Plotinus was confused with Plato whose name appears in Arabic as 'Aflatun, it seems indeed that this particular confusion was made by some other writers, and the translators accepted the current belief, maintained by all the neo-Platonic commentators, that the teaching of Aristotle and that of Plato were substantially the same, the superficial appearances of difference being such as could be easily explained away. By means of this *Theology* the fully developed doctrine of the neo-Platonists was put into general circulation and combined with the teaching of Alexander of Aphrodisias and thus exercised an enormous influence on the philosophy of Islam in several directions. In the hands of the philosophers properly so called it developed an Islamic neo-Platonism which received its final form at the hands of Ibn Sina (Avicenna) and Ibn Rushd (Averroes), and in this form exercised a powerful influence over Latin scholasticism. Transmitted in another atmosphere it affected Sufism or Muslim mysticism, and was mainly responsible for the speculative theology which that mysticism developed.

In a modified form some of the resultant principles gathered from these two sources finally entered into orthodox Muslim scholastic theology.

The main points of this neo-Platonic doctrine as it figures in Muslim theology present the teaching of the active intellect or '*aql fa"al*', the Agent Intellect of Alexander A ph. as an emanation from God, and the '*aql hayyulani*' or passive intellect in man only aroused to activity by the operation of this Agent Intellect, which is substantially the doctrine of Alexander Aph.: the aim of man is to attain a union or *ittisal* in which his intellect becomes one with the Agent Intellect, although the means of attaining this union and the nature of the union differ in the doctrines of the philosophers and the mystics, as we shall see in due course.

Next to philosophy proper medical science is the most important heritage received by the Arabic world from Hellenism. But this science derived through an Alexandrian medium had a serious defect in the accretions which the later Egyptian school had added to the pure teaching of Galen and Hippocrates. As we have already noted this accretion is of a quasi magical character and shows itself in talismans, etc., and theories which are based on ideas which are now classed as "sympathetic magic."

The real impetus came ultimately from transmitted Hellenism, but this influence was derived immediately from the Nestorians in philosophy proper, and from the Nestorians and the Zoroastrian school at Junde-

Shapur in medicine. A good deal later comes the influence of the pagan school at Harran, which also had a neo-Platonic tendency. When the second Abbasid Khalif al-Mansur passed by Harran on his way to fight against the Byzantine Emperor he was astonished to observe the strange appearance of some of the citizens who came out to meet him, wearing their hair long and having close fitting tunics. When the Khalif asked whether they were Christians, Jews, or Zoroastrians, they replied that they were neither. He then enquired if they were " people of a book," for it was only those who possessed written scriptures who could be tolerated in Muslim dominions ; but to this they returned such hesitating and ambiguous replies th[^]t the Khalif at length felt convinced that he had discovered a colony of pagans, as was the case, and he ordered them to adopt some one or other of the " religions of the book " before his return from the war, or to suffer the penalty of death. At this they were greatly alarmed : some of them became Muslims, others Christians or Zoroastrians, but some declined to desert their traditional beliefs. These latter naturally had the most anxious time, wondering how they could contrive to evade the Khalif s demands. At length a Muslim lawyer offered to show them a way out of the difficulty if they paid him a substantial fee for doing so. The fee was paid and he advised them to claim to be Sabians, because Sabians are mentioned in the Qur'an as belonging to a religion " of the book," but no one knew who the Sabians were. There is a

sect known as *Babiyun* or *Sabaeen*, whose religion is a strange mixture of ancient Babylonian state worship Christian Gnosticism, and Zoroastrianism, living in the mashe lands near Basra, but they had always been careful to keep their religious beliefs secret from all outsiders, and although they were no doubt the sect mentioned in the Qur'an under the name of *Sabiyun* or *Sabians*, none could prove that the pagans of Harran were not also comprised under this term. The Khalif never did pass back by Harran, the pagans who had assumed the name of Sabian continued to use it, those who had become Christians or Zoroastrians reverted to their old faith and submitted to its new name ; those who had become Muslims were obliged to remain so as the penalty of death lay upon any who became renegades from that religion.

The most distinguished of the *alumni* of Harran was Thabit b. Qurra (d. 289 A.H.), a scholar familiar with Greek, Syriac, and Arabic, who produced many works on logic, mathematics, astrology, and medicine, as well as on the ritual and beliefs of the paganism to which he remained faithful. Following in his footsteps were his son Abu Sa'id Sinan, his grandsons Ibrahim and Abu l-Hasan Thabit, and his great grandsons Ishaq and Abu l-Faraj. All these specialized in mathematics and astronomy.

It seems that we ought to associate with Harran *Jabir b. Hayyan* a perfectly historical character but of somewhat uncertain date, but believed to have been a pupil of the 'Umayyad prince Khalid, who dia-

tinguished himself by his researches in chemistry. Many chemical treatises bear the name of Jabir and a great proportion of these are probably quite authentic. M. Berthelot in the 3rd volume of his *La chimie au moyen age* (Paris, 1893) has made a careful analysis of the Arabic chemists and regards the whole material capable of division into two classes, the one a reproduction of the investigations of the Greek chemists of Alexandria, the other as representing original investigations, though based upon the Alexandrian studies in the first place, and all this original material he regards as due to the initiative of Jabir who thus becomes in chemistry very much what Aristotle was in logic. Berthelot publishes in this book six treatises claiming to be by Jabir, and these he regards as representative of all Arabic chemical material, the later investigators continuing in the lines laid down by this first investigator. For a long time the main object in view was the transmutation of metals, but at a later period chemistry enters into closer connection with medical work though never losing the metallurgical character which we imply when we speak of "alchemy." The object in view of the Arabic students of alchemy does not appeal to the modern scientist, although the possibility of transmuting elements is no longer regarded as the impossible dream which it appeared to the chemists of the nineteenth century: and, at the same time, it is perfectly clear that with admitted limitations, the Arabic chemists were bona fide investigators, though

not understanding correctly the results of the experiments they made.

All the texts published by M. Berthelot begin with the warning that the contents are to be kept strictly secret, and often contain a statement that some essential process is omitted in order that the unenlightened student may not be able to perform the experiments successfully, lest the wholesale production of gold should be a means of corrupting the whole human race. Undoubtedly the Arabic chemists did claim to have attained a knowledge of the means of transmuting the baser metals into gold but the histories contain various references which show that these claims were adversely criticised by many contemporary thinkers, and that a great many of the Arabic writers regarded chemistry, as it was then understood, as a mere imposture. More than once it was noted that the philosopher al-Farabi, who fully believed that it was possible to change other metals into gold and wrote a treatise on how it might be done, himself lived and died in great poverty, whilst Ibn Sina, who did not believe in alchemy, enjoyed modest comfort and could have commanded wealth had he been willing to accept it.

In the course of the middle ages various treatises by Jabir were translated into Latin, where his name appears as Geber, and exercised a considerable influence in producing a western school of alchemy. Before long many original alchemical works were produced in Western Europe and a considerable

proportion of these were published under the name of Geber but are pure forgeries. As a result the personality of Geber took a semi mythical character and attempts have been made to account for the diverse and contradictory statements about his life and death, and about the country and century in which he lived by supposing that there were several persons who bore the name; but the fact seems to be that he early attained a position of great prominence as a chemical writer, and that later ages fathered on him a number of apocryphal productions. Berthelot considers that the best evidence associates him with Harran in the early part of the second century of the Hijra.

Arabic chemistry largely reproduces the work of the Greek chemists of Alexandria, but probably had an underlying native Egyptian stratum. J. Euska (*Tabula smaragdina*, 1926) regards the material as transmitted through Coptic to Arabic, but this certainly was not the case as the Coptic texts show that they have been translated from Arabic originals.

CHAPTER V

THE MU'TAZILITES

When the Aristotelian philosophy was first made known to the Muslim world it was received almost as a revelation supplementing the Qur'an. At that time it was very imperfectly understood and the discrepancies between it and orthodox theology were not perceived. Thus the Qur'an and Aristotle were read together and regarded as supplementing one another in perfect good faith, but inevitably the conclusions, and still more perhaps the methods, of Greek philosophy began to act as a powerful solvent on the traditional beliefs.

Maqrizi refers to the Mu'tazilites as seizing with avidity on the books of the philosophers, and certainly now new difficulties begin to appear as well as the two great problems which had been prominent at the beginning of the second century—the eternity of the Qur'an and the question of free will. The new difficulties were especially concerned with the qualities of God and, later, with the Qur'anic promise of the beatific vision. The problem of the qualities of God is very closely parallel to the earlier difficulty as to the eternity of the Qur'an, indeed it appears as an enlargement of it. Christian theologians educated in

the methods of Greek philosophy had already debated this matter, and in their hands it had taken the form of the question, "how many, and what, attributes are compatible with the unity of God?" If God's wisdom, whether expressed in the Qur'an or not expressed, were eternal there was something which God possessed, and consequently something other than God which was equal to him in eternity and was not created by him, so that it could not be said that God was alone and that all other things proceeded from him as their cause as the eternal quality always was side by side with God, and so Wasil b. 'Ata declared "he who affirms an eternal quality beside God, affirms two gods." But this applies equally to all qualities, justice, mercy, etc., and, as was suggested by the study of Aristotle, all the categories, all that could be predicated of God as subject, were either created by God and so were not essential and eternal attributes, or else were external things equal with God.

The second generation of Mu'tazilites, of those who begin to show direct acquaintance with Greek philosophy, begins with *Abu l-Hudayl ah Allaf* of Basra (d. 226 A.H.), who lived at the time when Greek philosophy was beginning to be studied with great ardour and was received without question. He admits the attributes of God and regards them as eternal, but treats them on lines very similar to those employed by the Christians in dealing with the divine hypostases, that is to say, they are not external things

possessed by God but modes or phases of the divine essence. The will of God for example, he treats as a mode of knowledge, that is to say that God wills what is good is equivalent to saying that God knows it to be good. But in dealing with the will we must distinguish between (a) that which exists in place, as the moral rules in God's commandments to men, for there could be no will against theft until the creation of things which could be stolen ; in such case the will exists in time and is created, for it depends upon a created thing : and (b) that which exists not in place and without an object to which the will refers, as when God willed to create before the thing to be created existed. In man the inner volition is free, but the outer acts are not free ; sometimes they are controlled by external forces in the body, or even outside the body, and sometimes they are controlled by the inner volition. Aristotle speaks of the universe as existing from eternity, but the Qur'an refers to its creation, yet these are not inconsistent: we must suppose that it existed eternally, but in perfect quiescence and stillness, as it were latent and potential rather than actual, and without those qualities which appear in the categories of logic and are to us the only known terms of existence. Creation meant that God brought in movement so that things began to exist in time and space, and the universe comes to an end when it returns again to the state of absolute rest in which it was at the beginning. Men can distinguish between good and evil by the light of reason, for good

and evil have objective characters which can be recognised so that our knowledge of this difference does not depend only on God's revelation: but no man can know anything about God but by the medium of revelation which is given principally for this purpose.

Ibrahim b. Sayar an-Nazzam (d. 231), the next great Mu'tazilite leader was a devoted student of the Greek philosophers and an encyclopedic writer. In this he was typical of the earlier Arabic philosophers whose endeavour was to apply Greek science to the interpretation of life and nature generally, an aim which necessarily tended to produce encyclopaedic compilations rather than original studies in any one field of knowledge. Already the Mu'tazilites had reached the position that good and evil represent objective realities and that God, knowing the good does not will that which is contrary to it; but an-Nazzam presses this further and asserts that God can do nothing in the creature save what is for its good and is in itself just. To this the objection was raised that in such case God's own acts are determined and are not free. An-Nazzam replied that he admitted this determination, not in action but in potentiality as God is restricted by his own nature. He attempted to reproduce the ancient doctrine that the soul is the form of the body, as had already been asserted by Aristotle, but he misunderstood the terminology employed and represents the soul as of the same shape as the body. This implies that the soul is a very

subtile kind of substance permeating the whole body in the same way as butter permeates milk, or as oil permeates the sesame : both soul and body are equal in size and alike in shape. Freedom of the will is peculiar to God and man, all other created things are subject to necessity. God created all things at once in remote eternity, but reserved them in a state of quiescence so that they may be described as " concealed," and then projected them into active existence at successive intervals.

The next great Mu'tazilite leader was *Bishr b. Mu'tamir* (d. 226 circ.) in whose work we find a more definite attempt to apply philosophical speculation to the practical needs of Islam. In the case of free will he enters directly into the question of how far external influences limit freedom of the will and so diminish responsibility. Infants cannot be condemned to eternal punishment because they have no responsibility, having never exercised free will. Unbelievers, however, are condemned to punishment because, although they have not the help of revelation, it is possible for them to know that there must be a God, and only one God, by the light of reason. In dealing with actions and their moral values we have to consider not only one agent and one object, but often a series, the act being transmitted from one to the other so that each of the intervening objects becomes the agent to the next object. This serial connection he termed " begetting " (*tawullud*).

Ma'mar b. Abbad as-Sulami (d. 220) describes God

as creating substances but not accidents, so that he produced a kind of universal matter common to all existing things and to this matter or essence the accidents are added, some produced by a force inherent in the essence created, others by free will on the part of the creature. Following the neo-Platonic commentators on Aristotle he treats the attributes of God as purely negative, so that God is unknowable by man. In the case of wisdom or knowledge, that which is known must either be identical with God, or external to him: if God is the agent who knows and that which is known as object is also himself, there is a distinction between God the agent and God the object which implies two persons, and this is subversive of the divine unity : but if God is the agent and knows something external to himself, that knowledge depends on the external object, and God therefore is not absolute but in some sense dependent on something other than himself. Hence the attributes of God cannot be such as the positive qualities which exist in man, but only the negation of those which are distinctively human and dependent: we can only say that he is infinite, meaning unlimited in space, or eternal as unlimited in time, or other like terms negative of the known things which can be predicated of man. The general tendency of Ma'mar's teaching is distinctly pantheistic: partly this is due to the logical development of a tendency already inherent in the neo-Platonic doctrine with which all Arabic thought was now becoming saturated, and partly it

was due to oriental influences which were now beginning to appear in Islam.

Ma'mar's pantheism was more fully developed by *Tumameh b. al-Ashras* (d. 213) who treats the world as indeed created by God, but created according to a law of nature so that it is the expression of a force latent in God and not due to an act of volition. *Tumameh* entirely deserts *al-Allaf's* attempt to reconcile the Aristotelian doctrine of the eternity of matter with the teaching of the *Qur'an*, and quite frankly states that the universe is eternal like God. This is by no means the last word in Islamic pantheism, but its subsequent development rather belongs to the doctrines of the extremer Shi'ite sects and to Sufism.

Reverting to *an-Nazzam*, the great leader of the middle age of the Mu'tazilites, we find his teaching continued by his pupils *Ahmad b. Habit*, *Fadl ah Eudabi*, and *'Amr b. Bakr al-Jahiz*. On the theological side all the Mu'tazilites admitted the eternal salvation of good Muslims, and most agreed that unbelievers would receive eternal punishment: but there were differences of view as to those who were believers but died unrepentant in sin. For the most part the Mu'tazilites took the lax view that these would be favourably treated as against the rigorist opinion which reserved eternal salvation to good Muslims, an opinion which appeared amongst the stricter believers during the 'Umayyad period. The two first named of *an-Nazzam's* pupils, however, introduced a new theory entirely repugnant to ortho-

dox Islam, though familiar to the extremer Shi'ite sects, that those neither decisively good nor absolutely bad, pass by transmigration into other bodies until they finally deserve either salvation or damnation. With these two thinkers also we are brought into contact with another problem which now began to present itself to Islam, the doctrine of the "beatific vision." Islam generally had expected the vision of God to be the chief of the rewards enjoyed in paradise, but the treatment of the attributes of God had been so definitely against the anthropomorphic ideas expressed in the Qur'an that it became difficult to explain what could be meant by "seeing God." Ahmad and Fadl dealing with this subject deny that men ever will or can see God ; the beatific vision can at most mean that they are brought face to face with the "Agent Intellect" which is an emanation from the First Cause, and "seeing" in such a connection must of course mean something quite different from what we understand as vision.

^k*Amr b. Baler al-Jahir* (d. 255), the third of an-Nazzam's pupils mentioned above, may be regarded as the last of the middle period of the Mu'tazilites. He was an encyclopaedic writer according to the fashion of the time and wrote on literature, theology, logic, philosophy, geography, natural history, and other subjects (cf. Masudi viii. 33, etc.) To free will he gives rather a new bearing. The will he regards as simply a manner of knowing and so as an accident of knowledge ; a voluntary act he defines as one known

to its agent. Those who are condemned to the fire of hell do not suffer eternally by it, but are changed by its purification. The term " Muslim " must be taken to include all who believe that God has neither form or body, since the attribution of a human form to God is the essential mark of the idolater, that he is just and wills no evil, and that Muhammad is his prophet. Substance he treats as eternal, accidents are created and variable.

We have now reached the third stage of the history of the Mu'tazilites, that which marks their decline. During this latter period they divide into two schools, that of Basra giving its attention mainly to the attributes of God, that of Baghdad being chiefly occupied with the more purely philosophical discussion of what is meant by an existing thing.

The Basrite discussions received their final form in the dispute between *al-Jubbay* (d. 303) and his son *Abu Hashim* (d. 321). The latter held that the attributes of God are distinct *modes* of being, we know the essence under such varying modes or conditions, but they are not *states*, nor are they thinkable apart from the essence, though they are distinct from it but do not exist apart from it. Against this his father objected that these subjective attributes are only names and convey no concept. The attributes are thus asserted to be neither qualities nor states so as to imply subject or agent, but they are inseparably united with the essence.

Against all views of this sort the orthodox adhered,

and still adhere to the opinion that Ood has real qualities. Those who laid emphasis on this in opposition to the Mu'tazilite speculations are commonly known as *Sifatites* (*sifat*, qualities), but they admit that, as Ood is not like a man, the qualities attributed to him in the Qur'an are not the same as those qualities bearing the same names which are referred to men, and it is not possible for us to know the real import of the qualities attributed to God.

A more pronounced recoil against the Mu'tazilite speculations appears in Abu 'Abdullah b. Earram (d. 256) and his followers who were known as Karramites. These returned to a crude anthropomorphism and held that God not only has qualities of precisely the same kind as a man may have, but that he actually sits on a throne, etc., taking in plain literal sense all the statements made in the Qur'an.

The Mu'tazilite school of Baghdad concerned itself mainly with the metaphysical question—" what is a thing ? " It was admitted that " thing " denotes a concept which could be known and could serve as subject to a predicate. It does not necessarily exist, for existence is a quality added to the essence : with this addition the essence becomes an entity (*mawjud*), without this addition it is a non-entity (*ma'dum*) but still has substance and accident, so that God creates by adding the single attribute of existence.

The whole course of Mu'tazilite speculation shows the influence of Greek philosophy as applied to Muslim theology, but the influence is for the most

part indirect. The ideas of Aristotle, as the course of speculation projected to the fore-front the problems with which he had dealt in times past, were received through a Syriac Christian medium, for the most part imperfectly understood and somewhat modified by the emphasis which Christian controversy had given to certain particular aspects. More or less directly prompted by the Mu'tazilite controversy we have three other lines of development: in the first place we have the " philosophers " as the name is used by the Arabic writers, meaning those students and commentators who based their work directly on the Greek text or at least on the later and better versions. In their hands philosophical enquiry took a somewhat changed direction as they began to understand better the real meaning of what Aristotle had taught. In the second place we have the orthodox theology of al-Ash'ari, al-Ghazali, and others, which represents Muslim theological science as modified and partly directed by Aristotelian philosophy, consciously endeavouring to make a working compromise between that philosophy and Muslim theology. The older Mu'tazilite tradition came to an end in the time of al-Ash'ari: men who felt the force of philosophical questions either adopted the orthodox scholasticism of al-Ash'ari and those who came after him, or followed the course of the philosophers and drift

away from the traditional beliefs of Islam altogether. In the third place we have the Sufi movement, in which we find neo-Platonic elements mingled with others from the east, from India and Persia. The M'utazilites proper come to an end with the fourth century A.H.

CHAPTER VI

THE EASTERN PHILOSOPHEES

The Aristotelian philosophy was first made known to the Muslim world through the medium of Syriac translations and commentaries, and the particular commentaries used amongst the Syrians never ceased to control the direction of Arabic thought. From the time of al-Ma'mun the text of Aristotle began to be better known, as translations were made directly from the Greek, and this resulted in a more accurate appreciation of his teaching, although still largely controlled by the suggestions of the commentaries circulated amongst the Syrians. The Arabic writers give the name of *failasuf* (plur. *falasifa*), a transliteration of the Greek φιλόσοφος, to those who based their study directly on the Greek text, either as translators or as students of philosophy, or as the pupils of those who used the Greek text. The word is used to denote a particular series of Arabic scholars who arose in the third century A.H. and came to an end in the seventh century, and who had their origin in the more accurate study of Aristotle based on an examination of the Greek text and the Greek commentators whose work was circulated in Syria, and is employed as though these *falasifa* formed a par-

ticular sect or school of thought. Other philosophical students were termed *hakim* or *nazir*.

The line of these *falasifa* forms the most important group in the history of Islamic culture. It was they who were largely responsible for awakening Aristotelian studies in Latin Christendom, and it was they who developed the Aristotelian tradition which Islam had received from the Syriac community, correcting and revising its contents by a direct study of the Greek text and working out their conclusions on lines indicated by the neo-Platonic commentators.

The first of the series is *Yaqub b. Ishaq al-Kindi* (d. circ. 260 A.H. - 873 A.D.), who began very much as a Mu'tazilite interested in the theological problems discussed by the members of that school of thought, but desirous of testing and examining these more accurately, made use of the translations taken directly from the Greek and then only recently published. By this means he brought a much stricter method to bear, and thus opened the way to an Aristotelian scholarship much in advance of anything which had been contemplated so far. As a result his pupils and those who came after them raised new questions and ceased to confine themselves to Mu'tazilite problems, and al-Kindi was their intellectual ancestor in those new enquiries which his methods and his use of the Greek text alone made possible. It is a strange fact that al-Kindi, the parent of Arabic philosophy, was himself one of the very **few** leaders of Arabic thought who was **a true**

Arab by race. For the most part the scientists and philosophers of the Muslim world were of Persian, Turkish, or Berber blood, but al-Kindi was descended from the Yemenite kings of Kinda (cf. genealogy quoted from the *Tarikh al-Hakama* cited in note (22) of De Slane's trans, of Ibn Kkallikan, vol. i. p. 355)- Very little is known about his life, save that his father was governor of Kufa, that he himself studied at Baghdad, under what teachers is not known, and stood high in favour with the Khalif Mu'tasim (A.H. 218-227). His real training and equipment lay in a knowledge of Greek, which he used in preparing translations of Aristotle's *Metaphysics*, Ptolemy's *Geography*, and a revised edition of the Arabic version of Euclid. Besides this he made Arabic abridgments of Aristotle's *Poetica* and *Hermeneutica*, and Porphyry's *Isagoge*, and wrote commentaries on Aristotle's *Analytica Posteriori*, *Sophistica Elenchi*, the *Categories*, the apocryphal *Apology*; on Ptolemy's *Almagesta* and Euclid's *Elements*, and original treatises, of which the essay "On the Intellect" and another "On the five essences" are the most noteworthy (Latin tr. by A. Nagy in Baeumker and Hertling's *Beitrag zur Geschichte der philosophie des MA.* II. 5. Munster, 1897).

He accepted as genuine the *Theology of Aristotle* which had been put into circulation by Naymah of Emessa, and, we are told, revised the Arabic translation. The *Theology* was an abridgment of **the**

last three books of Plotinus' *Enneads*, and presumably al-Kindi compared this with the text of the *Enneads*, corrected the terminology and general sense in accordance with the original, and evidently did so without any suspicion that it was not a genuine work of Aristotle. The *Theology* had not been long introduced to the Muslim world, and it is certain that the use of it made by al-Kindi was a main cause of its subsequent importance. Endorsed by him it not only took an assured place in the Aristotelian canon, but became the very kernel of the teaching developed by the whole series of *falasifa*, emphasizing the tendencies already marked in the commentary of Alexander of Aphrodisias. The influence of the *Theology* and of Alexander appear most clearly in the treatise "On the Intellect" which is based on the doctrine of the faculties of the soul as described in Aristotle's *de anima* I I. ii. Al-Kindi, developing the doctrine as presented by the neo-Platonic commentators, describes the faculties or degrees of intelligence in the soul as four, of which three are actually and necessarily in the human soul, but one enters from outside and is independent of the soul. Of the three former one is latent or potential, as the knowledge of the art of writing is latent in the mind of one who has learned to write ; the second is active, as when the scribe evokes from the latent state this knowledge of writing which he desires to put into practice; the third is the degree of intelligence actually involved in the operation of writing, **where**

the knowledge now quickened into activity guides and directs the act. The external faculty is the " Agent Intellect " (*'aql fa"al*) which proceeds from God by way of emanation and which, though acting on the faculties in the body, is independent of the body, as its knowledge is not based upon perceptions obtained through the senses.

It is futile to maintain that the history of Arabic philosophy shows a lack of originality in the Semitic mind ; for one thing not one of the philosophers of first rank after al-Kindi was of Arab birth, very few could be described as Semitic. It would be more correct to say that the Greek philosophers stood alone, until quite modern times, in attempting anything which could be described as a scientific psychology. Until the methods and material of modern natural science came to be applied to psychological research there was little, if any, advance on the psychological theories of the ancient Greek investigators, and the only point of difference in later schools was as to which particular aspect of ancient research would be selected as the starting-place. Here lies the great importance of al-Kindi, for it was he who selected and indicated the starting-point which all the later Arabic philosophers began from, and selected the material which they developed. The particular basis thus selected by al-Kindi was the psychology of Aristotle's *de Anima* as expounded by Alexander of Aphrodisias. This was suggested but not in all respects clearly indicated by the Syriac philosophers,

and it seems certain that al-Kindi's development was very largely influenced by the *Theology of Aristotle*, a work which he evidently esteemed very greatly. The relation between Alexander Aphr. and Plotinus, whose teaching appeared in the *Theology*, may be described as being that Alexander's teaching contained all the germs of neo-Platonism, whilst Plotinus shows the neo-Platonic system fully worked out. As first presented this system must have seemed fully consistent with the teaching of the Qur'an, indeed it would appear as complementary to it. In man was an animal soul which he shared with the lower creation, but added to it was a rational soul or spirit which proceeded directly from God and was immortal because it was not dependent on the body. The possible conclusions which proved to be inconsistent with the teachings of revelation were not as yet fully worked out.

We need not linger over al-Kindi's logical teaching which carried on and corrected Arabic study of the Aristotelian logic. This was not a mere side issue, it is true, although logic did not play so important a part in Arabic education as it did in Syriac. In Syriac it was the basis of all that we should regard as the humanities, but in Arabic this position was taken by the study of grammar, which was developed on rather fresh and independent lines, though slightly modified by the study of logic in later times. Still, so long as the Muslim world had any claim to be regarded as fostering philosophical studies, and to

a less degree even in later times, the Aristotelian logic has been only second to grammar as the basis of a humane education. Al-Kindi's real influence is shown in the introduction of the problems of psychology and of metaphysics, and the work of the *falasifa* centres in these two studies on the lines indicated by al-Kindi.

In psychology, as we have seen, al-Kindi introduced a system already fully developed by Alexander and the neo-Platonic commentators on Aristotle, kept alive amongst the Syriac students of philosophy, and then further developed from this point by his successors. In metaphysics the circumstances were different. Al-Kindi apparently was the one who introduced the problems of metaphysics to the Muslim world, but it is obvious that he did not clearly understand Aristotle's treatment of these problems. The problems involved in the ideas of movement, time, and place are treated by Aristotle in books iv., v. and vii. of the *Physics*, which had been translated by al-Kindi's contemporary, Hunayn b. Ishaq, and in the *Metaphysics*, of which at the time no Arabic translation existed, so that, so far as it was used, al-Kindi must have consulted the Greek text.

The essay " On the Five Essences " treats the ideas of the five conditions of matter, form, movement, time, and place. Of these he defines (a) matter as that which receives the other essences but cannot itself be received as an attribute, and so if the matter is taken away the other four essences are necessarily

removed also, (b) Form is of two kinds, that which is the essential of the genius, being inseparable from the matter, and that which serves to describe the thing itself, i.e., the ten Aristotelian, categories—substance, quantity, quality, relation, place, time, situation, condition, action, and passion; and this form is the faculty whereby a thing (*shay-*) is produced from formless matter, as fire is produced from the coincidence of dryness and heat, the matter being the dryness and heat, the form being the fire; without form the matter is abstract but real, becoming a thing when it takes form. As De Vaux points out (*Avicenne*, p. 85) this illustration shows that al-Kindi does not grasp Aristotle's meaning correctly, (c) Movement is of six kinds: two are variations in substance, as either generation or corruption, i.e., production or destruction; two are variations in quantity by increase or decrease; one is variation in quality, and one is change of position, (d) Time is itself akin to movement, but proceeds always and only in one direction ; it is not movement, though akin, for movement shows diversities of direction. Time is known only in relation to a " before " or " after," like movement in a straight line and at a uniform rate, and so can only be expressed as a series of continuous numbers, (e) Place is by some supposed to be a body, but this is refuted by Aristotle: it is rather the surface which surrounds the body. When the body is taken away the place does not cease to exist, for the vacant space is instantly filled

by some other body, air, water, etc., which has the same surrounding surface. Admittedly al-Kindi shows a crude treatment of these ideas, but he was the first to direct Arabic thought in this direction, and from these arose a new attitude towards the revealed doctrine of creation on the part of those who came after him.

Al-Kindi, the "Philosopher of the Arabs," as he was called (circ. 365), contains our best account of the various sects existing in Islam towards the end of the 3rd century A.H. as he met them in the course of his travels. It has been published as the second volume of De Goeje's *Bibliotheca Oeographorum Arab.* (Leiden., 1873).

The next great philosopher was *Muhammad b. Muhammad b. Tarkhan Abu Nasr al-Farabi* (d. 339), of Turkish descent. He was "a celebrated philosopher, the greatest indeed that the Muslims ever had; he composed a number of works on logic, music, and other sciences. No Musulman ever reached in the philosophical sciences the same rank as he, and it was by the study of his writings and the imitation of his style that Avicenna attained proficiency and rendered his own works so useful." (Ibn Khallikan, iii. 307). He was born at Farab or Otrar near Balasaghum, but travelled widely. In the course of his wanderings he came to Baghdad but, as at the time he knew no Arabic, he was unable to enter into the intellectual life of the city. He set himself first to acquire a knowledge of the Arabic language, and then became

a pupil of the Christian physician Matta b. Yunus, who was at that time a very old man, and under him he studied logic. To increase his studies he removed to Harran, where he met the Christian philosopher Yuhanna b. Khailan, and continued to work at logic under his direction. He then returned to Baghdad, where he set to work at the Aristotelian philosophy, in the course of his studies reading the *de anima* 200 times, the *Physics* 40 times. His chief interest, however, was in logic, and it is on his logical work that his fame chiefly rests. From Baghdad he went to Damascus, and thence to Egypt, but returned to Damascus, where he settled for the rest of his life. At that time the empire of the Khalifa of Baghdad was beginning to split up into many states, just like the Roman Empire under the later Karlings, and the officials of the Khalifate were forming semi-independent principalities under the nominal suzerainty of the Khalif and establishing hereditary dynasties. The Hamdanids Shi'ites, who began to rule in Mosul in 293, established themselves at Aleppo in 333 and achieved great fame and power as successful leaders against the Byzantine emperors. In 334 (=946 A.D.) the Hamdanid Prince Sayf ad-Dawla took Damascus, and al-Farabi lived under his protection. At that period the orthodox were distinctly reactionary, and it was the various Shi'ite rulers who showed themselves the patrons of science and philosophy.

At Damascus al-Farabi led a secluded life- Most of his time he spent by the borders of one of the many streams which are so characteristic a feature of Damascus, or in a shady garden, and here he met and talked with his friends and pupils. He was accustomed to write his compositions on loose leaves, " for which reason nearly all his productions assume the form of detached chapters and notes ; some of them exist only in fragments and unfinished. He was the most indifferent of men for the things of this world; he never gave himself the least trouble to acquire a livelihood or possess a habitation. Sayf ad-Dawla settled on him a daily pension of four dirhams out of the public treasury, this moderate sum being the amount to which al-Farabi had limited his demand." (Ibn Khallikan, iii. 309-310.)

Al-Farabi was the author of a series of commentaries on the logical Organon, which contained nine books according to the Arabic reckoning, namely:

- (i.) The Isagoge of Porphyry.
- (ii.) The Categories or al-Maqlat.
- (iii.) The Hermeneutica or al-'Ibara or al-Tafsir.
- (iv.) The Analytica Priora or al-Qiyas I.
- (v.) The Analytica Posteriora or al-Burhan.
- (vi.) The Topica or al-Jadl.
- (vii.) The Sophistica Blenchi or al-Maghalit.
- (viii.) The Ehetoric or al-Khataba.
- (ix.) The Poetics or ash-Shi'r.

reliable judgment, who uses his judgment in an upright way to discern between good and evil, and thus is distinguished from a crafty man who employs his mind in devising evil expedients. Theologians use the term *'aql* to denote the faculty which tests the validity of statements, either approving them as true or rejecting them as false. In the *Analytica* Aristotle uses "intelligence" for the faculty by which man attains directly to the certain knowledge of axioms and general abstract truths without the need of proof ; this faculty al-Farabi explains as being the part of the soul in which intuition exists, and which is thereby able to lay hold of the premises of speculative science, i.e., the reason of intelligence proper as the term is employed in the *de anima*, the rational soul which Alexander of Aphrodisias takes as an emanation from God. Following al-Kindi, al-Farabi speaks of four faculties or parts of the soul: the potential or latent intelligence, intelligence in action, acquired intelligence, and the agent intelligence. The first is the *'aql hayyulani*, the passive intelligence, the capacity which man has for understanding the essence of material things by abstracting mentally that essence from the various accidents with which it is associated in perception, more or less equivalent to the "common sense" of Aristotle. The intelligence in action or *'aqt bi-l-fi'l* is the potential faculty aroused to activity and making this abstraction. The agent intelligence or *'aql fa"al* is the external power, the emanation from God which is able to awaken

the latent power in man and arouse it to activity, and the acquired intelligence or '*aql mustafad*' is the intelligence aroused to activity and developed under the inspiration of the agent intelligence. Thus the intelligence in action is related to the potential intellect as form is to matter, but the agent intelligence enters from outside, and by its operation the intelligence receives new powers, so that its highest activity is "acquired."

Al-Farabi appears throughout as a devout Muslim, and evidently does not appreciate the bearing of the Aristotelian psychology on the doctrine of the Qur'an. The earlier belief of Islam, as of most religions, was a heritage from primitive animism, which regarded life as due to the presence of a perfectly substantial, though invisible, thing called the soul: a thing is alive so long as the soul is present, it dies when the soul goes away. In the earlier forms of animism this is the explanation of all movement: the flying arrow has a "soul" in it so long as it moves, it ceases to move when this soul goes away or desires to rest. This involves no belief in the immortality of the soul, nor is the soul invested with any distinct personality, all that comes later; it is simply that life is regarded as a kind of substance, very light and impalpable but perfectly self-existent. What may be described as the "ghost" theory marks a later stage of evolution, when the departed soul is believed to retain a distinct

personality and still to possess the form and some at least of the sensations associated with the being in which it formerly dwelt. Such was the stage reached by Arab psychology at the time of the preaching of Islam. The Aristotelian doctrine represented the soul as containing different energies or parts, such as it had in common with the vegetable world and such others as it possessed in common with the lower kinds of animals: that is to say the faculties of nutrition, reproduction, and all the perceptions obtained from the use of the organs of sense, as well as the intellectual generalisations derived from the use of those senses, are simply laid on one side as forms of energy derived from the potentialities latent in the material body, very nearly the position indeed of modern materialism, as the term is used in psychology. This does not oppose a belief in God, who is the prime source of the powers which exist, although that is brought out more by the commentators than by Aristotle himself; nor does it infringe the doctrine of an immortal and separable soul or spirit which exists in man in addition to what we may describe as the vegetative and animal soul. It is this spirit, the rational soul which has entered from outside and exists in man alone, which is immortal. Such a doctrine sets an impassible gulf between man and the rest of creation, and explains why it is impossible for those whose thought is formed on Aristotelian lines, whether in orthodox

Islam or in the Catholic Church, to admit the "rights" of animals, although ready to regard benevolent action towards them as a duty. But more, the highly abstract rational soul or spirit of the Aristotelian doctrine, void of all that could be shared with the lower creatures, and even of all that could be developed from anything that an animal is capable of possessing, is the only part of man which is capable of immortality, and such a spirit separated from its body and the lower functions of the animal soul can hardly fit in with the picture of the future life as portrayed in the Qur'an. Further, the Qur'an regards that future life as incomplete until the spirit is re-united with the body, a possibility which the Aristotelians could hardly contemplate. The Aristotelian doctrine showed the animal soul not as an invisible being but merely as a form of energy in the body : so far as it was concerned, death did not mean the going away of this soul, but the cessation of the functions of the bodily faculties, just as combustion ceases when a candle is blown out, the flame not going away and continuing to exist apart; or as the impression of a seal on wax which disappears when the wax is melted and does not continue a ghostly existence on its own account. The only immortal part of man, therefore, was the part which came to him as an emanation from the Agent Intellect, and when this emanation was set free from its association with the human body and lower soul it became inevitable to suggest its re-absorption in the omni-

present source from which it had been derived. The logical conclusion was thus a denial, not of a future life, nor of its eternity, but of the separate existence of an individual soul, and this, as we shall see, was actually worked out as a result of Arabic Aristotelianism. Thus the scholastic theologians, both of Islam and of Latin Christianity, attack the philosophers as undermining belief in individual personality and in opposing the doctrine of the resurrection, and in this latter, it must be remembered, Muslim doctrine is committed to cruder details than prevail in Christianity. But al-Farabi did not see where the Aristotelian teaching would lead him : to him Aristotle seemed orthodox because his doctrines seemed to prove the immortality of the soul.

Al-Farabi expresses his theory of causality in the treatise called " the gems of wisdom." Everything which exists after having not existed, he says, must be brought into being by a cause which itself may be the result of some preceding cause, and so on, until we reach a First Cause, which is and always has been, its eternity being necessary because there is no other cause to precede it, and Aristotle has shown that the chain of causes cannot be infinite. The First Cause is one and eternal, and is God (cf. Aristot. *Metaph.* 12. 7, and similarly Plato, *Timaeus* 28). Being unchanged this First Cause is perfect, and to know it is the aim of all philosophy, for obviously everything would be intelligible if the cause of all were known. This First Cause is the " necessary being " whose

existence is necessary to account for all other existence; it has neither genus, species, nor differentia; it is both external and internal, at once apparent and concealed; it cannot be perceived by any faculty but is knowable by its attributes, and the best approach to knowledge is to know that it is inaccessible. In this treatment al-Farabi is mingling the teaching of philosophy proper with mysticism, in his days rapidly developing in Asiatic Islam, and especially in the Shi'ite community with which he was in contact. From the philosophical point of view God is unknowable but necessary, just as eternity and infinity are unknowable but necessary, because God is above all knowledge: but in another sense God is beneath all knowledge, as the ultimate reality must underlie all existing things, and every result is a manifesting of the cause.

The proof of the existence of God is founded upon the argument in Plato, *Timaeus* 28, and Aristotle, *Metaphysics* 12. 7, and was later on used by Albertus Magnus and others. In the first place a distinction is made between the possible, which may be only potential, and the real. For the possible to become real it is necessary that there should be an effective cause. The world is evidently composite, and so cannot itself be the first cause, for the first cause must be single and not multiple: therefore the world evidently proceeds from a cause other than itself. The immediate cause may itself be the result of another preceding cause, but the series of causes cannot be infinite, nor

can they return as a circle upon themselves, therefore if we trace back we must ultimately reach an *ens primum*, itself uncaused, which is the cause of all, and this first cause exists of necessity, but not by a necessity caused by anything other than itself. It must be single and unchangeable, free from all accidents, absolute, perfect, and good, and the absolute *intelligentia*, *intelligibile*, and *intelligens*. In itself it possesses wisdom, life, insight, will, power, beauty and goodness, not as acquired or external qualities, but as aspects of its own essence. It is the first will and the first willing, and also the first object of will. It is the end of all philosophy to know this first Cause, which is God, because as He is the cause of all, all can be understood and explained by understanding and knowing Him. That the first Cause is single and one and the cause of all agrees with the teaching of the Qur'an, and al-Farabi freely uses Qur'anic phraseology in perfect good faith, supposing that the Aristotelian doctrine corroborates the doctrine of the Qur'an. The most curious part of al-Farabi's work is the way in which he employs the terminology of the Qur'an as corresponding to that of the neo-Platonists, so that the Qur'anic pen, tablet, etc., represent the neo-Platonic, etc. It may be questioned whether, even in al-Farabi, philosophy really does fit in with Qur'anic doctrine, but the divergence was not yet sufficiently marked to compel attention.

Assured of the conformity of the teaching of Aristotle with the teaching of revelation al-Farabi

denies that Aristotle teaches the eternity of matter, and so is inconsistent with the dogma of creation. The whole question depends on what is meant by "creation." God, he supposes, created all things in an instant in unmeasured eternity, not directly, but by the intermediary operation of the *'aql* or Agent Intelligence. In this sense Aristotle held that the universe existed in eternity, but it so existed as a created thing. Creation was therefore complete before God, acting through the *-aql*, introduced movement, at which time commenced ; as movement and time came into existence simultaneously, forth-with creation already existing in the timeless came out of its concealment and entered into reality. The term "creation" is sometimes used as applying to this emergence from timeless quiescence, but more properly may be taken as denoting the causation, which, as it preceded time, came into unmeasured eternity, which is what Aristotle means when he speaks of the world as eternal. Thus both Qur'an and Aristotle are right, but each uses "creation" to denote a different thing.

It is difficult to over-estimate the importance of al-Farabi. Practically all we afterwards meet in Ibn Sina and Ibn Bushd is already to be found in substance in his teaching, only that these later philosophers have realized that the Aristotelian system cannot be reconciled with the traditional theology, and so, having given up all attempt at formal reconciliation, are able to express themselves more clearly and to

press home their tenets to their logical conclusions. When considering the reconciliation between philosophy and Qur'an attempted by al-Farabi it is important to compare and contrast the reconciliation attempted on quite other lines by al-Ash'ari and other founders of orthodox scholasticism. It must be noted that the beginning of scholasticism was contemporary with al-Farabi.

As has been noted, al-Farabi was mixed up with the Shi'ite group; the supporters of 'Alid claims who held aloof from the official Khalifate. at Baghdad. About the time of al-Kindi's death (circ. 260), the twelfth Iman of the *Ithna 'ashariya* or orthodox Shi'ite sect, Muhammad al-Muntazar, "disappeared." In the year 320, within the period of al-Farabi's activity, the Buwayhid princes became the leading power in 'Iraq, and in 334, five years before his death, they obtained possession of Baghdad, so that for the next 133 years the Khalifs were in very much the same position as the Frankish kings when they, surrounded with great ceremony and treated with the utmost reverence, were no more than puppets in the hands of the Mayors of the Palace. In exactly the same way the Khalifs, half popes and half emperers, whose sign manual was sought as giving a show of legitimacy to sovereigns even in far-off India, possessed in Baghdad only ceremonial functions, and were treated as honoured prisoners by the Buwayhid Emirs, who themselves were Shi'ites of the *Ithna 'ashariya* sect, and who, consequently, re-

garded the Ehalifs as mere usurpers. At this period the Shi'ites were the patrons of philosophy, and the orthodox Sunnis generally took a reactionary attitude.

Besides the *Ithna 'ashariya*, the comparatively orthodox Shi'ites, there was another branch of extreme-type known as the *SabHya* or "seveners." The sixth Imam Ja'far as-Sadiq had nominated his son Isma'il as his successor, but as Isma'il was one day found drunk, Ja'far disinherited him and appointed his second son Musa al-Qazam (d. 183). But some did not admit that the Imamate, whose divine right passed by hereditary descent, could be transferred at will, but remained loyal to Isma'il, and these preferred, when Isma'il died in Ja'far's lifetime, to transfer their allegiance to his son Muhammed, reckoning him as the seventh Imam. These "seveners" continued to exist as an obscure sect until, it would appear, somewhere about the year 220, when 'Abdullah, the son of a Persian oculist named Maymun, either was made their head or led a secession from them, and organised his followers with a kind of freemasonry in seven (afterwards nine) grades of initiation and a very admirably organised system of propaganda on the lines already laid down by the Hashimites (cf. *supra*). In the earlier grades the doctrine of *batu* or allegorical interpretation of the Qur'an was laid down as essential to a right understanding of its meaning, for the literal sense is often obscure, and sometimes refers to things incomprehensible, a doctrine commonly attri-

buted to Jaffar as-Sadiq. The initiate was then taught that the true meaning could not be discovered by private interpretation but needed an authoritative teacher, the Imam, or, as he had disappeared, his accredited representative, the Mahdi 'Abdullah, son of Maymun. In the higher grades the disciple had this inner meaning of the Qur'an disclosed to him, and this proved to be substantially the Aristotelian and neo-Platonic doctrine in general outline, together with certain oriental elements derived from Zoroastrianism and Masdekism. These oriental elements figured chiefly in the doctrines taught to the intermediate grades, the higher ones attaining a pure agnosticism with an Aristotelian background. The sect thus formed spread, developed, and finally divided. It had a successful career in the Bahrayn or district near the junction of the two rivers, the Tigris and Euphrates, and there its followers were known as Qarmatians, after the name of a leading missionary. It met with success also in and around Aden, but we have no account of its subsequent history there. From Aden missionaries passed over to North Africa, where it had its chief success, and when Ubayd Allah, a descendant of 'Abdullah, passed over there an independent state was founded, with its capital at Kairawan (297 A.H.). From Kairawan a missionary propaganda was conducted in Egypt, then suffering from almost perennial misgovernment, and in the days of the deputy Kafur a definite invitation was sent by the Egyptian officials asking for the Khalif

of Kairawan to enter Egypt. At length **Ubayd** Allah's great-grandson al-Mo'izz did invade Egypt in 356, and established there the Fatimite Khalifate, which lasted until the country was conquered by Saladin in 567.

The Sab'iya sect was thus geographically divided into two branches, one in Asia represented by the Qarmatians, the other in Africa under the Fatimite Khalifs. In the Asiatic branch the members were chiefly drawn from the Nabatsean peasantry, and the sect took the form of a revolutionary group with communist teaching, and violently opposed to the Muslim religion. In their contemptuous hostility they finally attacked Mecca, slew many of the dignitaries of the city and a number of pilgrims who were there, and carried off the sacred black stone, which they retained for several years. In the hands of the Qarmatians the sect ceased to be a propaganda of philosophical doctrine, it became simply anti-religious and revolutionary. The history of the African branch took a different turn. Possession of an important state brought with it a position of respectability, and political ambition replaced religious enthusiasm. As the majority of the subject population was strictly orthodox, the peculiar tenets of the sect were, to a large extent, allowed to drop into the background; candidates were still admitted to initiation and instructed, but, although the Fatimite rulers in Egypt were liberal patrons of scholarship, **and** generally showed **a** more tolerant attitude **than**

other contemporary Muslim rulers, they certainly did not carry out a wholesale Aristotelian propaganda; indeed, the line of " philosophers " proper simply misses over Fatimite Egypt, although there were several distinguished medical workers there. From the Isma'ilians or Sab'iya of Egypt there came two interesting off-shoots. Towards the end of the reign of the sixth Fatimite Khalif, al-Hakim, who may have been a religious fanatic, perhaps insane, or possibly an enlightened religious reformer of views far ahead of his age—his real character is one of the problems of history—there arrived in Egypt certain Persian teachers holding doctrines of transmigration and of theophanies, which seem to be endemic in Persia, and these persuaded al-Hakim that he was an incarnation of the Deity. A riot followed the open preaching of this claim, and the preachers fled to Syria, then a part of the Fatimite dominions, and there founded a sect which still exists in the Lebanon under the name of the Druzes. Soon after this al-Hakim himself disappeared ; some said he was murdered, others said he had retired to a Christian monastery, and was recognised there afterwards as a monk; others believed he had gone up to heaven, and more than one claimant appeared asserting that he was al-Hakim returned from concealment. The other off-shoot shows a more definitely philosophical bearing. In the days of al-Mustansir, al-Hakim's grandson, one of the Isma'ilian missionaries, a Persian named BTasir-i-Khusraw, came from Khurasan

to Egypt, and after a stay of seven years returned home. This seems to have coincided with a kind of revival in the Isma'ilian sect, which now regarded Cairo as its headquarters. The Qarmatians had quite passed away; al-Hakim, whatever his later eccentricities, had been a patron of scholarship, the founder of an academy, the *Baru l-HiJma*, or^a "House of Wisdom," at Cairo, and had enriched it with a large library, and wap himself distinguished as a student of astronomy. The reign of his grandson was the golden age of Fatimid science, and apparently Shi'ites from all parts of Asia found their way to Egypt. In 471 another da'i or missionary, Hasan-i-Sabbah, a pupil of Nasir-i-Khusraw, visited Cairo and was received by the Chief Da'i, but not allowed to see the Ehalif, and eighteen months later was compelled to leave the country and return to Asia. There were two factions in Cairo, the adherents respectively of the Khalif s two sons, Nizar and Musta'li; Nasir-i-Khusraw and Hasan-i-Sabbah had already made themselves known as supporters of the elder son Kizar, but the court officials in Egypt adhered to the younger son Musta'li. When the Ehalif al-Mustansir died in 487 the Isma'ilian sect divided into two new branches, the Egyptians and Africans generally recognising Musta'li, the Asiatics adhering to Nizar. This latter group had already been well organised by Nasir-i-Khusraw and Hasan-i-Sabbah, who for several years previously had been preaching the rights of Nizar. On his return home, about 473, Hasan-

i-Sabbah had secured possession of a stronghold known as Alamut, " the eagle's teaching " (cf. Browne: *Lit. History of Persia*, ii. 203, espec. note 13), and this became the headquarters of the sect of Nizaris or Assassins, who figure so prominently in the history of the Crusades. They had many mountain strongholds, but all were under the control of the Sheikh or " Old Man of the Mountain," as the Crusaders and Marco Polo called him, at Alamut. These Sheikhs or Grand Masters of the order continued for eight generations, until Alamut was captured by the Mongols in 618 A.H. (=1221 A.D.), and the last was put to death. As the order grew it spread into Syria, and it was the Syrian branch with which the Crusaders from Europe came most into contact. In this order we find the old system of successive grades of initiation. The *Lasiqs*, or " adherents," had but little knowledge of the real doctrines of the sect, and attached to them were the *FidaHs* or " self-devoted," bound to blind obedience and ready to execute vengeance at the bidding of their superiors ; these were the men to whom the Crusaders especially applied the term *Assassins*, that is *Hashishin* or " users of hashish," referring to the hashish or Indian hemp which they commonly used as a means of exaltation. Above these were the *Rafiqs* or " companions," and above these was an ordered hierarchy of *da'is* or missionaries, Chief Missionaries (*daH i-Kabir*), and Supreme Missionary (*da'i d-Du'at*). In the eyes of outsiders the whole sect had a sinister

appearance; the crimes of the Fida'is, usually committed under striking and dramatic circumstances, and the reputed heresies of the superior grades were sufficient to secure this, and the general dread with which they were regarded was increased by incidents which showed that they had spies and sympathizers in all directions. The superior grades, however, were true heirs of the old Isma'ilian principles and ardent students of philosophy and science. When the Mongols under Hulagu seized Alamut in 654 = A.D. 1256) they found an extensive library and an observatory with a collection of valuable astronomical instruments. The Mongol capture meant the downfall of the Assassins, although the Syrian branch still continued in humbler fashion, and the sect has adherents even at the present day. Scattered relics survive also in central Asia, in Persia, and in India; the Agha Khan is a lineal descendant of Ruknu-d-Din Khurshah, the last Sheikh at Alamut.

Thus the movement started by Abdullah, the son of Maymun, whose original purpose seems to have been to maintain a highly philosophical religion as revealed by Aristotle and the neo-Platonists, but to safeguard this as an esoteric faith disclosed only to initiates, the rank and file being apparently Shi'ite sectaries, produced a group of very curious sects. In the Qarmatians the esoteric tenets were compelled to take a debased form because those who professed them, and into whose hands this branch fell altogether, were illiterate peasants. In the Patimid

state of Egypt they were minimised because political considerations rendered it expedient to conciliate orthodox Muslim opinion. And in the Assassins, confined, it seems, to the higher grades of the initiates, they produced a rich intellectual development, though allied to a system which shows fanaticism unscrupulously used by the leaders that they might live out their lives in a philosophical seclusion, protected from the dangers which surrounded them.

Before leaving this particular subject, which shows the promulgation of philosophy as an esoteric creed, we must refer to a society known as the *Ikhwanu s-Safa* or "the brotherhood of purity." We do not know what its connection with 'Abdullah b. Maymun's sect may have been beyond the fact that they were contemporary and of kindred aims, but it certainly seems that there was some connection : it has been suggested that this brotherhood represents the original teaching of Abdullah's sect. It was divided into four grades, but its doctrines were promulgated freely at an early date, though we do not know whether this general divulging of its teaching was part of the original plan or forced upon it by circumstances. It appears openly about 360, some hundred years after Abdullah founded his sect, shortly after the Fatimites had conquered Egypt and some time after the Qarmatians had returned the sacred black stone which they had stolen from the "House of God" at Mecca. It seems tempting to suggest that it may have been a reformation of

the Ishma'ilians' on the part of those who wished to return to the original aims of the movement.

The published work of the brotherhood appears in a series of 51 epistles, the *Rasa'ul ikhwani s-Safa*, which form an encyclopaedia of philosophy and science as known to the Arabic-speaking world in the 4th cent. A.H. They do not propose any new theories but simply furnish a manual of current material. The whole text of these epistles has been printed at Calcutta, whilst portions of the voluminous whole have been edited by Prof. Dieterici between 1858 and 1872, and these were followed in 1876 and 1879 by two volumes called *Makrolcosmos* and *Mikrokosmos*, in which an epitome is presented of the whole work. It appears that the leading spirit in the preparation of this encyclopaedia was Zayd b. Rif'a'a, and with him were associated Abu Sulayman Muhammad al-Busti, Abu l-Hasan 'Ali az-Zanjani, Abu Ahmad al-Mahrajani, and al-Awfi, but it does not follow that these were the founders of the brotherhood, as some have supposed.

A great part of the *Epistles of the Brotherhood* deals with logic and the natural sciences, but when the writers turn to metaphysics, psychology, or theology, we find very clear traces of the neo-Platonic doctrines as contained in Alexander of Aphrodisias and matured by Plotinus. God, we read, is above all knowledge and above all the categories of human thought. From God proceeds the '*aqil*' or intelligence, a complete spiritual emanation which contains in itself the forms

of all things, and from the 'aql proceeds the Universal Soul, and from that Soul comes primal matter: when this primal matter becomes capable of receiving dimensions it becomes secondary matter, and from that the universe proceeds. The Universal Soul permeates all matter and is itself sustained by the perpetual emanation of itself from the 'aqh. This Universal Soul permeating all things yet remains one; but each individual thing has a part-soul, which is the source of its force and energy, this part-soul having a varying degree of intellectual capacity. The union of soul and matter is temporary; by wisdom and faith the soul tends to be set free from its material fetters, and so to approach nearer to the present spirit or 'aql. The right aim of life is the emancipation of the soul from matter, so that it may be absorbed in the parent spirit and thus approach nearer to the Deity. All this is but a repetition of the teaching of al-Farabi and the neo-Platonists, slightly coloured, perhaps, by Sufism, and expressed less logically and lucidly than in the teaching of the philosophers. In general character it shows a tendency towards pantheism, akin to the tendency we have already observed in certain of the Mu'tazilites. God, properly so called, is outside, or rather on such a plane that man does not know, and never can know, anything about Him. Even the ^kaql is on a plane other than that on which the human soul lives. But the Universal Soul which permeates all things is an emanation from this Spirit, and the Spirit emanates

from the unknowable God. Comparing this with the teaching of al-Kindi and al-Parabi it is clear that it is based upon the same material, but it is in the hands of those who have made it a religion, and this religion has entirely broken away from the orthodox doctrine of the Qur'an. In al-Farabi this breach is not conscious, although really quite complete ; in his successors we see a full realization of the cleavage. Comparing it with Sufism the superficial resemblances are very close, the more so as Sufism borrows a great deal of philosophical, i.e., neo-Platonic terminology, but in fact there is an essential divergence: the Epistles of the brethren represent the emancipation of the soul from matter as the aim of life, and the final result is re-absorption in the Universal Soul, but they represent this emancipation as due to an intellectual force, so that the soul's salvation lies in wisdom and knowledge; it is a cult of intellect. But Sufism is spiritual in another sense: it has the same aim in view, but it regards the means as wisdom in the sense of religious truth as found by the devout soul in piety, not as the wisdom obtained by intellectual learning.

We seem, however, justified in saying that Sufism is the heir of the philosophical teaching of al-Parabi and the Brethren of Purity, at least in Asia. After the first quarter of the fifth century philosophical teaching seems to have disappeared altogether in Asia, but this is only apparent. In substance it **remains in Sufism, and we** may say that the essential

change lies in the new meaning given to "wisdom," which ceases to signify scientific facts and speculations acquired intellectually, and is taken to mean a supra-intellectual knowledge of God. This, perhaps, represents the Indian contribution working upon elements of Hellenistic origin.

The doctrines of the *Brethren of Purity* were introduced to the West by a Spanish doctor, Muslim b. Muhammad Abu l-Qasim al-Majriti al-Andalusi (d. 395-6), and were largely influential in producing the *falasifa* of Spain, who ultimately exercised so great an influence on mediaeval Latin scholasticism.

Before leaving this particular section of our subject it will be well to note that all these sects and groups we have mentioned after al-Farabi, from the sect founded by Abdullah b. Maymun to the Brethren of Purity, agreed in treating philosophy, at least in so far as it had any bearing on theological topics, as esoteric, and not to be disclosed to any save the elect.- This general attitude will appear again, in a slightly different form, in the works of the Spanish philosophers, and to some extent recurs in all Islamic thought.

The greatest product in Asia of the ferment of thought produced by the general study of the Aristotelian and neo-Platonic philosophies appears in *Abu -Ali al-Husayn b. 'Abdullah b. Sina* (d. 428 - A.D. 1027), commonly known as Ibn Sina, which is Latinized as Avicenna. His life is known to us from an autobiography completed by his pupil, Abu Ubayd

al-Juzjanl, from his master's recollections. We learn that his father was governor of Kharmayta, but, after his son's birth, he returned to Bukhara, which had been the original home of his family, and it was there that Ibn Sina received his education. During his youth some Isma'ilian missionaries arrived from Egypt, and his father became one of their converts. From them the son learned Greek, philosophy, geometry, and arithmetic. This helps to remind us how the whole Isma'ilian propaganda was associated with Hellenistic learning. It is sometimes stated that the Egypt of the Fatimite age was isolated from the intellectual life of Islam at large: but this is hardly accurate; from first to last the whole of the Isma'ilian movement was connected with the intellectual revival due to the reproduction of Greek philosophy in Arabic form, less so, of course, when the Isma'ilian converts were drawn from the illiterate classes, as was the case with the Qarmations, and when the attention of the members was engrossed with political ambitions, as was the case with the Fatimids whilst they were building up their power in Africa before the invasion of Egypt. But even under the most unfavourable conditions it seems that the *da'is* or missionaries regarded the spread of science and philosophy as a leading part of their duties, quite as much so as the preaching of the 'Alid claims of the Fatimite Ehalif. Learning Greek and Greek philosophy from these missionaries Ibn Sina made rapid progress, and then turned to the study of juris-

prudence and mystic theology. Jurisprudence, that is to say, the canon law based on one of the orthodox systems laid down by Ab-u Hanifa and the other recognised jurists, or by their Shi'ite rivals, has always been the backbone of Islamic scholarship, and was thus parallel with the study of canon law in mediaeval Europe: in each case it turned men's attention to the development of the social structure towards an ideal, and this had an educative influence of the highest value. We, holding very different principles, may be tempted to under-estimate this influence, but it is worth noting that, whilst our aims are opportunist in character, the canonist of Islam or of Christendom had a more definitely constructed ideal, with a more complete and scientific finality, which, in so far as it was an ideal, was an uplifting power. In Muslim lands the canonists were the one power which had the courage and ability to resist the caprices of an autocratic government, and to compel even the most arbitrary princes to submit to principles which, however narrow and defective they may seem to us, yet made the ruler admit that he was subordinate to a system, and defined the limits allowed by that system in conformity with ideals of equity and justice. It is interesting to note that in Ibn Sina's time mystic theology had already taken its place as a subject of serious study.

A short time afterwards a philosopher named an-Natali arrived at Bukhara and became a guest of Ibn Sina's father. Bearing in mind the technical

meaning of *failasuf*, we recognise this guest as a professed Aristotelian, and presumably one able to obtain his living as a teacher of the Aristotelian doctrine. From him Ibn Sina learned logic and had his mind directed towards the Aristotelian teaching, which was then preached like a religion. After this he studied Euclid, the *Almajesta*, and the "Aphorisms of the Philosophers." His next study was medicine, in which he made so great progress that he adopted the practice of medicine as his profession. He attempted to study Aristotle's *Metaphysics*, but found himself entirely incapable of understanding its meaning, until one day he casually purchased one of al-Farabi's books, and by its help he was able to grasp the meaning and purport of what had so far eluded him. It is on this ground that we are entitled to describe Ibn Sina as a pupil of al-Farabi: it was al-Farabi's work which really formed his mind and guided him to the interpretation of Aristotle; al-Farabi was, in the truest sense, the parent of all subsequent Arabic philosophers; great as was Ibn Sina he does not enter into the tradition in the same way as al-Farabi, and does not exercise the same influence on his successors, although al-Ghazali classes him with al-Farabi, and calls them the leading interpreters of Aristotle. Emphasis is sometimes laid upon the fact that Ibn Sina treats philosophy as quite apart from revelation as given in the Qur'an; but in this he was not original: it was the general tendency of all who came after al-Farabi; we can

only say that Ibn Sina was the first important writer **who** illustrates this tendency.

Called to exercise his medical skill at the court of Nuh b. Mansur, the Samanid governor of Khurasan, he enjoyed that prince's favour, and in his library studied many works of Aristotle hitherto unknown to his contemporaries, and when that library was **burned** he was regarded as the sole transmitter of the doctrines contained in those books. This represents contemporary Arabic opinion about him: there is no evidence in his existing writings that he had access to Aristotelian material other than that generally known to the Syriac and Arabic writers. When the affairs of the Samanid dynasty fell into disorder Ibn Sina removed to Khwarazan, where he, with several other scholars, enjoyed the enlightened patronage of the Ma'muni Emir. But this Emir was living a somewhat precarious existence in the neighbourhood of the Turkish Sultan Mahmud of Ghazna, the stern champion of orthodoxy and the conqueror of India. It was obvious that the Sultan coveted the Emir's dominions, and that when he chose to seize them it **would** be impossible to resist; he actually did take them in 408. Meanwhile the Sultan was treated with the utmost deference by the Emir and such of his neighbours as were allowed to live on sufferance. **Mahmud** wished to be distinguished as a patron of **learning**, and "invited" scholars to his court—in plain words, he kidnapped scholars and took care that **they never** afterwards transgressed the strictest

limits of orthodoxy. Amongst others the Emir received a letter inviting such men of learning as were to be found in Khwarazan to his court. The Emir read out the letter to the five most distinguished scholars who were his guests, leaving them to act as they thought fit. Three of the guests were attracted by the Sultan's reputation for generosity and accepted the invitation, but two, Ibu Sina and Masihi, were afraid to venture, so they escaped privately and fled; overtaken by a sandstorm in the desert Masihi perished, but Ibn Sina, after long wanderings, finally found a refuge in Isfahan, where the Buwayhid 'Ala'u d-Dawla Muhammad held his court. His experiences show plainly that it was the Shi'ites who were the supporters of philosophy, and that the growing Turkish power of Mahmud of Ghazna and of the Seljuks who succeeded him was reactionary and unfavourably disposed towards philosophical research. It was the Turkish power which finally checked the progress of Arabic philosophy in the East.

Ibn Sina wrote many works in Arabic and Persian, and a number of these are still extant. Amongst his productions were *as-Shafa*, an encyclopaedia of physics, metaphysics, and mathematics in eighteen volumes (ed. Forget, Leiden, 1892), a treatise on logic and philosophy, and the medical works on which his fame so largely rests. The best known of these are the *Najat* abridged from the *as-Shafa*, and the medical *Canon*, in which he reproduced the teaching

of Galen and Hippocrates with illustrative material from the later medical writers. The *Canon* is more methodical in its arrangement than the *al-Hawi* of Eazes, hitherto the popular manual of medicine in Arabic; indeed, its chief defect is an excessively elaborate classification. It became the leading medical authority, and, after translation into Latin by Gerard of Cremona, served for many centuries as the chief representative of the Arabic school of medicine in western Europe, holding its place in the universities of Montpellier and Louvain down to A.D. 1650.

Ibn Sina treats logic as of use rather in a negative than in a positive way : " the end of logic is to give a man a standard rule, by observing which he is preserved from error in reasoning" (*Isharat* ed. Forget, p. 2). His treatise on this subject in *Tis*¹ *Rasa'il fi-l-Hikma wa-l-Tabi'iyat* (p. 79, pub. Stamboul, 1298), is divided into nine parts corresponding to the Arabic canon of Aristotle, which includes the *Isagoge* as well as the *Rhetoric* and *Poetics*. He makes special note to the logical bearing of particular grammatical constructions which in Arabic differ from the forms used in Greek, as, for example, where the Greek expresses the universal negative by " all A is not B," but Arabic renders this " nothing of A (is) B." He lays great emphasis upon accurate definition, which he describes as the essential basis of all sound reasoning, and to this he devotes much attention. Definition proper must state the *quiddity*

of a thing, its genus, differentia, and all its essential characteristics, and is thus distinct from mere description, which need only give the propria and accidents in such a way that the thing may be recognised correctly.

In dealing with the universal and the particular he considers that the universal exists only in the human mind : the abstract idea of the genus is formed in the mind of the observer when he compares individuals and makes note of their points of similarity, but this abstract idea exists only as a mental concept and has no objective reality. The universal precedes the individual (*genus ante res*) only in the way that the general idea existed in the mind of the Creator before the individual was formed, just as the idea of an object to be made exists in the mind of the artificer before the work is executed. The general idea is realised in matter (*genus in rebus*), but only when accompanied by accidents: apart from these accidents it exists only as a mental abstraction. After the general idea is realised in matter (*genus post res*) it is possible for the intellect to make a mental abstraction and to use this as a standard of comparison with other individuals. The generic belongs only to the realm of thought, and such abstract ideas have no objective existence, although they may be used as real in logic.

The soul is treated as a collection of faculties (*kowa*) or forces acting on the body: all activity of any sort, in bodies animal or vegetable, as well as human, proceeds either from such forces added to

the body or from the mixture of elements from which the body is formed. The simplest soul condition is that of the vegetable whose activity is limited to nutrition and generation and accretion by growth (*Najat*, p. 43). The animal soul possesses the vegetable faculties but adds to them others, and the human soul adds yet others to these, and the addition made to the human soul enables it to be described as a rational soul. The faculties present in the soul may be divided into two classes, the faculties of perception and the faculties of action. The faculties of perception are partly external and partly internal: of these the external faculties exist in the body wherein the soul dwells and are the eight senses, sight, hearing, taste, smell, perception of heat and cold, perception of dry and moist, perception of resistance as by hard and soft, and perception of rough and smooth. By means of these senses the form of the external object is reproduced in the soul of the percipient. There are four internal faculties of perception: (i.) *al-musawira*, "the formative," whereby the soul perceives the object without the aid of the senses as by an act of imagination; (ii.) *al-mufaJckira*, "the cogitative," by which the soul perceiving a number of qualities associated together abstracts one or more of them from the others with which they are associated, or groups together those which are not seen as connected; this is the faculty of abstraction which is employed in forming general ideas; (iii.) *alwahm*, or "opinion," by means of which

a general conclusion is drawn from a number of ideas grouped together; and (iv.) *al-hafiza* or *az-zakira*, "memory," which preserves and records the judgments formed. Men and animals perceive particulars by means of sense; man attains the knowledge of universals by means of reason. The '*aql* or rational soul of man is conscious of its own faculties, not by means of an external, i.e., bodily sense, but immediately by the exercise of its own reasoning power. This proves to be an independent entity, even though accidentally connected with a body and dependent on that body for sense perception: the possibility of direct knowledge without sense perception shows that it is not essentially dependent on the body, and the possibility of its existence without the body, which follows logically from its independence, is the proof of its immortality. Every living creature perceives that it has only one *ego* or soul in itself, and this soul, says Ibn Sina, did not exist prior to the body but was created, that is to say, proceeded by emanation from the Agent Intellect at the time when the body was generated. (*Najat*, p. 51).

Under the head of Physics Ibn Sina considers the forces observed in nature, including all that are in the soul, save only that which is peculiar to the rational soul of man. These forces are of three kinds: some, such as weight, are an essential part of the body in which they occur; others are external to the body on which they act, and are such as cause movement

or rest; and others, again, are such as the faculties possessed by the non-rational souls of the spheres, which produce movement directly without external impulse. , No force is infinite; it may be increased or diminished, and always produces a finite result.

Time is regarded as essentially dependent on movement ; although it is not itself a form of movement, so far as the idea of time is concerned, it is measured and made known by the movements of the heavenly bodies. Following al-Kindi place is defined as " the limit of the container which touches the contained." Vacuum is " only a name", in fact it is impossible, for all space can be increased, diminished, or divided into parts, and so must contain something capable of increase, etc.

God alone is " necessary being," and so the supreme reality. Space, time, etc., belong to " actual being," and whatever necessity they possess is derived from God. The objects studied in physical science are only "possible being," which may or may not become " actual being." God alone is necessarily existent through all eternity : He is the truth in the sense that He alone is true absolutely, all other reality is so only in so far as it is derived from God. From God by emanation comes the 'aql or " Agent Intellect," and from this proceeds the intellect or reason which differentiates the rational soul in man from the soul in other creatures. To every man this intellect is given, and in due course it returns to the " Agent Intellect " which was its source. The soul's possible

activity, independent of the body with which it is associated, proves its immortality, but this immortality does not imply separate existence, but rather re-absorption in the source. From the 'aql also proceeds the universe, but not like the reason of man by direct emanation, but by the medium of successive emanations.

Ibn Sina was the last of the great philosophers of the East. Two causes combined to terminate philosophy proper in Asiatic Islam. In the first place it had become closely identified with the Shi'ite heresies, and was thus in bad repute in the eyes of the orthodox; whilst the Shi'ite sects themselves, all of the extremer kind (*ghulat*), which had devoted themselves most to philosophical studies, had also taken up a number of pre-Islamic religious theories, such as transmigration of souls, etc., which were detrimental to scientific research. Neo-Platonism had shown itself at an earlier period prone to similar tendencies. As a result the Shi'ites tended towards mystic and often fantastic theories, which were discouraging to the study of Aristotelian doctrines. The second cause lay in the rise of dominant Turkish elements, Mahmud of Ghazna, then the Saljuk Turks, which were of uncompromising orthodoxy, and abhorred everything which was associated with the Shi'ites or tended to rationalism. For all that it left permanent marks in Asiatic Islam in two directions: in orthodox scholasticism and in mysticism.

We have already noted that Muslim b. Muhammad Abu 1-Qasim al-Majriti al-Andalusi (d. 395-6), as his name denotes, a native of Madrid, brought the teachings of the *Brethren of Purity* to Spain, and so incidentally aroused an interest there in the philosophy which had been studied in the East. For some time no important results appeared, then followed a series of brilliant philosophical writers and teachers, deriving their inspiration partly from the *Brethren*, and partly from the Jewish students.

CHAPTER VII

SUFISM

Sufism or Islamic mysticism, which becomes prominent in the course of the 3rd cent. A.H., was partly a product of Hellenistic influences, and exercised a considerable influence on the philosophers of the time of Ibu Sina and afterwards. The name *Sufi* is derived from *suf* "wool," and so means "wool-clad," thus denoting a person who from choice used clothing of the simplest kind and avoided every form of luxury or ostentation. That this is the true meaning is proved by the fact that Persian employs as its equivalent the term *pashmina-push*, which also means "wool-clad." By a popular error the Arabic writers on Sufism often treat the word as derived from *safa*, "purity," and so make it something akin to "puritan"; and still more incorrectly certain Western writers have supposed that it is a transliteration of the Greek . The emphasis is laid upon the ascetic avoidance of luxury and the voluntary adoption of simplicity in clothing on the part of those to whom the term is applied. If we regard this as a form of asceticism it will be at once objected that asceticism has no place in the teaching of the Qur'an and is alien to the character of early

Islam. In a sense this is true, and in a sense untrue according to the meaning we attach to the term "asceticism." As it is used in the history of Christian monasticism, or of the devotees of several Indian religions, or even of the latter Sufis, it implies a deliberate avoidance of the normal pleasures and indulgences of human life, and especially of marriage, as things which entangle the soul and prevent its spiritual progress. In this sense asceticism is alien to the spirit of Islam, and appears amongst Muslims only as an exotic. But the term may be used, not very accurately perhaps, of the puritanical restraint and simplicity which avoids all luxury and display, and deliberately tries to retain a primitively simple and self-denying manner of life. In this latter sense asceticism or puritanism was a distinguishing mark of the "old believer" as contrasted with the secularised Arab of the Umayyad type, and this attitude always had its admirers. The historians constantly refer with commendation to the abstemious lives of the early Khalifs and the "Companions" of the Prophet, and describe how they were abstinent not from poverty but in order to put themselves on an equality with their subjects, and to preserve the traditional mode of life of the Prophet and his first followers, and very often in the recognised Traditions we find mention of the bare and simple mode of life of the first Muslims. Quite early this simplicity appears as the distinctive mark of the strict Muslim, and emphasizes the difference between him and the

worldly followers of the Umayyads, and similar instances appear amongst the devout Muslims of the present day. Such were not Sufis, but they may be regarded as the precursors of the Sufis. The historian al-Fakhri, describing the abstemious life of the first Khalifs, says that they endeavoured by this self-restraint to wean themselves from the lusts of the flesh. This is reading a later idea into a much earlier practice, which was originally designed simply as a more accurate following of the Prophet, who was unable to enjoy any luxury or splendour; but it shows that later generations were inclined to ascribe a more definitely ascetic motive to the affectedly simple life of the earlier Muslims, and no doubt that early puritanism, misunderstood by later ages, contributed to spread asceticism.

Al-Qushayri (cited Browne: *Lit. Hist. of Persia*, i. pp. 297-8), after referring to the "Companions" and "Followers" of the first age of Islam, then mentions the "ascetes" or "devotees" as the elect of a later age, those who were most deeply concerned with matters of religion, and finally the Sufis as those elect of still later times, "whose souls were set on God, and who guarded their hearts from the disasters of heedlessness." Historically this is an error, for the saints of early Islam were inspired by a spirit of strict adherence to the traditional life of their desert ancestors and rejected luxury as an "innovation," very much the same spirit as that observed in the ancient Hebrew prophets; whilst the Sufis were no

enthusiasts for tradition, but eschewed bodily indulgence as an entanglement of the flesh which hindered the progress of the spirit, so that they were in no sense the successors of the "Companions," but were influenced by new ideas unknown to early Islam. Yet superficially the results were very much alike, and this caused the two to be connected, and helped the later custom of connecting the early puritans with the ascetics of a subsequent age. In its earliest form, also, Islam made a strong appeal to the motive of fear, an appeal not based on divine severity so much as on divine justice and on man's consciousness of his own sinfulness and unworthiness, and on the fleeting passage of the life lived in this present world. There was an intense concentration on the Day of Judgment and on the perils of the sinner, a teaching which is perceived in the Qur'an even by the most casual reader : but all this was not altogether congenial to the Arab, although he in poetry certainly inclined towards a tone of sadness. The inevitable result of this teaching was asceticism in the puritanical sense, or, perhaps we should say, a tone of severity in religion.

Jami, one of the greatest Persian authorities on Sufism, tells us that the name "Sufi" was first applied to Abu Hashim (d. 162), an Arab of Kufa who spent the greater part of his life in Syria, and is typical of the early Islamic devotee who followed the simplicity of the Prophet's life and was deeply influenced by the Qur'anic teaching about sin,

judgment, and the brief passage of earthly life. Similar devotees, claimed as Sufis by later Sufi writers, but more properly devotees who were their precursors, appear in the course of the 2nd century, such as Ibrahim b. Adham (d. 162), Da'ud of Tayy (d. 165), Padayl of 'Iyad (d. 188), Ma'ruf of Karkh (d. 200), and others, both men and women. Amongst these there was gradually evolved the beginnings of an ascetic theology in traditional sayings and narratives of their lives and conduct, a hagiology which lays great emphasis upon their penances and self mortification. Of this material the most important is the recorded teaching of Ma'ruf of Karkh, from which we may quote the definition of Sufism as " the apprehension of divine realities," which, in a slightly altered sense perhaps, becomes the keynote of later Sufism.

Can we trace the origin of these early recluses? Von Eremer (*Herrsch*, p. 67) considers this type as a native Arab growth developed from pre-Islamic Christian influences. Christian monasticism we know was familiar to the Arabs in the country fringing the Syrian desert and in the desert of Sinai: of this we have evidence both in Christian writers like Nilus and in the pre-Islamic poets, as in the words of Imru I-Qays:—

" Friend, see the lightning—it flashed and is gone,
 like the flashing of two hands on a crowned pillar:
 Did its blaze flash forth for or was it the lamp of a
 monk who poured oil on the twisted wick ? "

The hermit's life was known even in Arabia itself, and tradition relates that Muhammad received his first call when he had retired to the cave of Hira and was living as a recluse there, returning periodically to his home and taking back food with him to the cave (cf. Bukhari: *Sahih*, L). It seems likely, indeed, that the early recluses of Islam were inspired by the example of Christian monasticism, either directly or through the medium of Muhammad's traditional retirement. But these recluses were not numerous, and admittedly neglect the Qur'anic command to marry (Qur. 24, 32).

Thus the earlier asceticism shows the character of devout quietism, of a puritanical abstinence from display of wealth and from self-indulgence, of a strict simplicity of life rather than of a voluntary poverty and mortification, of occasional retirement from the world, and only in rare instances of the permanent adoption of the hermit life. An instance of this type occurs in Abu l-'Abbas as-Sabti (d. 184), son of the Khalif Harunu r-Eashid, who renounced rank and fortune for a life of meditation and retirement.

In the latter part of the 3rd cent, we begin to find evidences of a "new Sufism," which was inspired by religious ideals other than those which had been dominant in early Islam, and which developed from those ideals a theology of its own, which for a long time was not admitted as orthodox. Asceticism still occurs, but whilst, on the one hand, it begins to

take a more definite character in the deliberate seeking of poverty and mortification, it is, on the other hand, relegated to a subordinate place as a merely preparatory stage in the Sufi life, which is technically described as a " journey." Poverty, which amongst the early Muslims was esteemed simply in so far as it reproduced the modest life of the Prophet and his companions, and was a standing protest against the secularisation of the Umayyads, now assumed greater prominence as a devotional exercise, a change which appears definitely in Da'ud at-Ta'i (d. 165), who limited his possessions to a rush mat, a brick which he used as a pillow, and a leather water bottle. In later Sufism poverty takes a position of great prominence : the terms *faqir*, " poor man," and *darwish*, " mendicant," become synonyms for " Sufi." But in Sufi teaching religious poverty does not mean absence of possessions only : it implies the absence of all interest in earthly things, the giving up of all participation in earthly possessions, and desiring God as the only aim of desire. So mortification is the subjugation of the evil part of the animal soul, the *nafs* which is the seat of the lust and passions, and so the weaning of the soul from material interests, a " dying to self and to the world " as a beginning of a living to God.

What was the source of the theology developed in the newer Sufism? Undoubtedly this was neo-Platonic, as has been proved by Dr. Nicholson (*Selected Poems from the Diwan of Shams-i-Tabriz*,

Camb., 1898, and *The Mystics of Islam*, Lond. 1914), and by Prof. Browne (*Literary Hist, of Persia*, Lond., 1902, chap, xiii.), and forms part of the influence which came into Islam at the introduction of Greek philosophy under the 'Abbasids. But as in philosophy and other cultural transmissions direct Greek influence was preceded by an indirect influence brought to bear through Syriac and Persian, so it was also in neo-platonic theology, for neo-Platonic influences had already been brought to bear upon the Syrians and Persians in the pre-Islamic period. In the forefront of the later direct influence must be placed the so-called *Theology of Aristotle*, which it is no exaggeration to describe as the most prominent and the widest circulated manual of neo-Platonism which has ever appeared. It is, as we have already stated, an abridged translation of the last three books of Plotinus' *Enneads*. Now the mysticism of Plotinus is philosophical and not religious, but it lends itself to a theological interpretation very easily, just as neo-Platonism as a whole very readily became a theological system in the hands of Jamblichus, of the pagans of Harran, and such like; and the Sufis were inclined to make this application, whilst the *falasifa* confined themselves to its philosophical side. It seems probable that the influence of the Pseudo-Dionysius was brought to bear upon Islam about the same time. The Pseudo-Dionysian writings consist of four treatises, of which two, a treatise " On Mystical Theology " in five chapters,

and a treatise " On the Karnes of God " in thirteen chapters, have been the chief source of Christian mystical theology. The first reference to these writings occurs in A.D. 532, when the claim was made that they were the work of Dionysius, the Areopagite, a pupil of St. Paul, or at least represent his teaching. In several places the writer cites Hierotheus as his teacher, and this enables us to identify the source as a Syrian monk named Stephen Bar Sudaili, who wrote under the name of Hierotheus (cf. Asseman, *Bibl. Orient*, ii. 290-291). This Bar Sudaili was abbot of a convent at Edessa, and was involved in controversy with James of Sarugh, so that we may refer the writings to the latter part of the 5th century A.D. They were translated into Syraic very soon after their first appearance in Greek, and, as familiar to Syriac Christians, must have become indirectly known to the Muslims. We have no direct evidence as to their translation into Arabic, but Mai gives fragments of other works of Bar Sudaili which appear in Arabic MSS. in his *Spicilegium Romanum* (iii. 707). The traditional view of the relations between Sufism and philosophy is described in the anecdote cited by Prof. Browne (*Lit. Hist. of Persia*, ii. 261, from *Akhlag-i-Jalali*) of the Sufi Abu Sa'id b. Abi l-Khayr (d. 441 A.H.=1049 A.D.), who is said to have met and conversed with Ibn Sina; when they parted Abu Sa'id said of Ibn Sina, " What I see, he knows," whilst Ibn Sina said, " What I know, he sees."

But there were other influences of a secondary character at work in 'Iraq and Persia which become important when we remember that it was the subject population of those parts which had, to a large extent, replaced the Arabs as the leaders of Islam during the 'Abbasid period. In connection with the Sufis probably we cannot refer any influence to the Zoroastrian religion proper, which had a non-ascetic and national character; but the Manichsean and Masdekite religions, the two "free churches" of Persia, show a definitely ascetic tone, and when we find, as is the case, that many of the early Sufis were converts from Zoroastrianism, or the sons of such converts, we are inclined to suspect that, though professing that recognised religion, they were in all probability actually *Zindiqs*, that is to say secretly heretics and initiates of the Manichsean or Masdekite sect making external profession of the more recognised cult, as was the common practice of these *Zindiqs*. Note must also be made of the Gnostic influences transmitted through the Saniya of the fen country between Wasit and Basra, the Mandseans, as they are called to distinguish them from the so-called Sabians of Harran. The Sufi Ma'ruf of Karkh was himself the son of Sabian parents. And again we must not ignore the probability of Buddhist influences, for Buddhist propaganda had been active in pre-Islamic times in Eastern Persia and Transoxiana. Buddhist monasteries existed in Balkh, and it is noteworthy that the ascete Ibrahim b. Adham (d. 162—cf. *supra*) is

traditionally described as a prince of Balkh who left his throne to become a darwish. On closer examination, however, it does not appear that Buddhist influence can have been very strong, as there are essential differences between Sufi and Buddhist theories. A superficial resemblance exists between the Buddhist *nirvana* and the *fana* or re-absorption of the soul in the Divine Spirit of Sufism. But the Buddhist doctrine represents the soul as losing its individuality in the passionless placidity of absolute quiescence, whilst the Sufi doctrine, though also teaching a loss of individuality, regards everlasting life as consisting in the ecstatic contemplation of the Divine Beauty. There is an Indian parallel to *fana*, but it is not in Buddhism, but in the Vedantic pantheism.

It is generally accepted that the first exponent of Sufi doctrine was the Egyptian, or Nubian, *Dhu n-Nun* (d. 245-246), a pupil of the jurist Malik b. 'Anas, who lived at the time when there was much percolation of Hellenistic influence into the Islamic world. He was indeed nearly contemporary with 'Abdullah, the son of Maymun, whose work we have already noticed. *Dhu n-Nun*'s teaching was recorded and systematized by al-Junayd of Baghdad (d. 297), and in it appears essential doctrine of Sufism, as of all mysticism, in the teaching of *tawhid*, the final union of the soul with God, a doctrine which is expressed in a way closely resembling the neo-Platonic teaching, save that in Sufism the means

whereby this union is to be attained is not by the exercise of the intuitive faculty of reason but by piety and devotion. Still the two come very close when we find in the teachings of the later philosophers that the highest exercise of reason consists in the intuitive apprehension of the eternal verities rather than in any other activity of the intellect. Al-Junayd is stated by Jami to have been a Persian, and it is chiefly in Persian hands that the doctrines of Sufism develop and turn towards pantheism. Both agnosticism and pantheism are present practically in the later neo-Platonism; agnosticism as regards the unknowable First Cause, the God from the Agent Intellect is an emanation, a doctrine which develops in the teaching of the philosophers and of the Isma'ilians and kindred sects; but Sufi teaching centres its attention upon the knowable God, which the philosopher would describe as the Agent Intellect or Logos, and this develops more usually in a pantheistic direction. The doctrines thus developed and expressed by al-Junayd were boldly preached by his pupil, *ash-SMbli* of Kurasan (d. 335).

Al-Husayn b. Mansur al-Hallaj (d. 309) was a fellow-student of *ash-Shibli*, and shows Sufism as allied with extremely unorthodox elements. He was of Zoroastrian descent and closely in touch with the Qarmatians, and seems to have held those doctrines which are usually associated with the *ghulat* or extreme Shi'ites, such as transmigration, incarnation, etc. He was put to death as a heretic for

it thinks of mathematical forms thinks of them as separated, though they are not separated ") do not exist apart in reality; the abstracting is only a mental process, so the general idea exists only as a concept, not as a reality. But between the purely spiritual being of God and the crudely material observed in the bodies existing in this world are intermediate forms of existence, such as angels, souls, etc., wherein the form is not impressed upon matter.

Besides this " Fountain of Life " Ibn Gabirol was the author of two ethical treatises, the *Tikkun Midwoth han-Nefesh*, " the correction of the manners of the soul," in which man is treated as a microcosm after the kabbalistic fashion; and *Mibchar hap-Peninim*, a collection of ethical maxims collected from the Greek and Arabic philosophers. The former has been published at Luneville in 1804, the latter at Hamburg in 1844.

At the beginning of the sixth century A.H., a younger contemporary of al-Ghazali, we have *Abu JBakr ibn Bajja* (d. 533 A.H. =1138 A.D.), the first of the Muslim philosophers of Spain. By this time, some three-quarters of a century after the death of Ibn Sina, Arabic philosophy was almost extinct in Asia and was treated as a dangerous heresy. In Egypt, it is true, there was a greater degree of toleration, though less than in the golden age of the Fatimids, but Egypt was regarded with suspicion as the home of heresy and of forms of superstition which were uncongenial to the philosopher. Spain thus becomes the place

of refuge for Muslim philosophy as it had already become the nursery of Jewish speculation. Ibn Bajja, known to the Latin schoolmen as "Avempace," found in Murabit Spain the freedom and toleration which Asia no longer afforded. He continues the work of al-Farabi, not, it will be noted, of Ibn Sina, and develops the neo-Platonic interpretation of Aristotle on sober and conservative lines. He wrote commentaries on Aristotle's *Physics*, *de generatione et corruptione*, and the *Meteora*; he produced original works on mathematics, on "the soul," and a treatise which he called "The Hermit's Guide," which was used by Ibn Rushd (Averroes) and by the Jewish writer Moses of Narbonne in the 14th cent. A.D. In this last work he makes a distinction between "animal activity," in which action is due to the prompting of the emotions, passions, etc., and "human activity," which is suggested and directed by abstract reason, and from this distinction draws a rule of life and conduct. He is chiefly cited by the Latin schoolmen with reference to the doctrine of "separate substances." "Avempace held that, by the study of the speculative sciences, we are able by means of the images which we know from these ideas to attain to the knowledge of separate substances" (St. Thomas Aq. c. *Gentiles*, 3, 41). This question as to the possibility of knowing substances separated, i.e. abstracted, from the concrete bodies in which they exist in combination—and the "separate substances" were regarded as spiritual things—was prominent in

mediaeval scholasticism, which inherited it from the Arabic philosophers, and from it came the further question whether the contemplation of such abstract ideas gives us a better knowledge of realities than observation of the concrete bodies. Both Albertus Magnus and St. Thomas Aquinas associate Avempace especially with this question and with the doctrine of the "acquired intellect," to which we have already referred in our notes on Ibn Sina, and which completes the theory of "separate substances" by supposing that intelligible forms stream into our souls from an outside Agent Intellect by way of emanation as substantial forms descend on corporeal matter. St. Thomas Aquinas shows direct knowledge of Avempace's treatment of these subjects, but this is not so evident in Albertus. Avempace, like all other Arabic philosophers, describes *ittisal* or union of the human intellect with the Agent Intellect, of which it is an emanation, as the supreme beatitude and final end of human life. By the operation of the Agent Intellect on the latent intellect in man this is awakened to life, but eternal life consists in the complete union of the intellect with the Agent Intellect. In Avempace the Sufi strain is much weaker than in al-Farabi; the means of attaining this union is not by ecstasy, but by a steady disentangling of the soul of those material things which hinder its pure intellectual life and consequent union. This leads us to the teaching of asceticism as the discipline of the soul for its spiritual progress, and the ascetic and solitary life

is the ideal proposed by Avempace. This ascetic and contemplative hermit life is not, however, in any sense a religious life, for in this respect Avempace has advanced far beyond al-Farabi; he is fully conscious that pure philosophy cannot be reconciled with the teachings of revelation, a conviction which now marks the definite separation of the ⁴⁴ "philosophers" from the orthodox scholastics of Islam, such as al-Ghazali and his school; he regards the teachings of revelation as an imperfect presentation of the truths which are more completely and correctly learned from Aristotle, and only admits the Qur'an and its religion as a discipline for the multitude whose intelligence neither desires nor is capable of philosophical reasoning. Strangely enough he lived in security, protected from the attacks of hostile theologians, under the protection of the Murabit princes.

Within a few years after the death of Avempace the Murabit dynasty came to an end. The succeeding dynasty, the Muwahhids, were of Berber origin like the Murabits, and, like them, had their origin in a religious revival.

The foundation of the Muwahhids is associated with *Ibu Tumart* (d. 624 A.H. - 1129 A.D.). He was a native of Morocco, and a strange combination of fanatic and scholastic. He claimed to be a descendant of 'Ali, and posed as the "Mahdi" possessing the supernatural grace of *isma* or "security from error," and thus introduced Shi⁴ite ideas into Morocco;

and at the same time it was he who introduced to the West the orthodox scholasticism of al-Ghazali, although at the same time he professed to be a follower of Ibn Hazm. He travelled in Asia, where, no doubt, he learned of al-Ghazali and his doctrines. Brought to Mecca he removed to Egypt, where he rendered himself prominent and objectionable by his puritanical criticisms on the manners of the people. Setting out from Alexandria in a ship travelling westwards he occupied himself with a reformation of the morals of the crew, compelling them to observe the correct hours of prayer and the other duties of religion. In 505 he appeared at Mahdiya, where he took up his abode in a wayside mosque. There he used to sit at the window watching the passers-by, and, whenever he saw any of them carrying a jar of wine or a musical instrument, he used to sally out and seize the offensive article and break it. The common people revered him as a saint, but many of the wealthier citizens resented his activities, and at length brought a complaint against him before the Emir Yahya. The Emir heard their complaints and observed Ibn Tumart and took note of the impression he had made upon the populace. With characteristic craft the Emir treated the reformer with all possible respect, but advised, nay rather urged, him to bestow the favour of his presence upon some other town as soon as convenient to him, and so he removed to Bijaiya (Bougie in Algeria). Here his ways were extremely unpopular, and he was driven away. He

next settled at Mellala, where he met a boy named 'Abdu 1-Mumin al-Kumi (d. 558), a potter's son, whom he made his disciple and declared to be his successor. At this time the Murabit dynasty had fallen from its original puritanism and was distinguished for the wealth and luxury which had been made possible by the conquest of Spain, and the splendour and ostentation of the royal family at Morocco laid it open to criticism. One Friday a faqir entered the public square where a throne was made ready for the Emir, and, pushing his way through the guards who stood round, boldly took his seat upon the throne and refused to leave. It was the Mahdi Ibn Tumart, and, so great was the superstitious reverence accorded to all faqirs, and to him above all, that none of the guards standing round ventured to remove him by force. At length the Emir himself appeared and, finding who had occupied his official seat, declined to interfere with the redoubtable faqir's will, but it was privately made plain to Ibn Tumart that it would be wise for him to leave the city for a while. The Mahdi therefore retired to Fez, but soon afterwards returned to Morocco. One day he met in the streets the Emir's sister, who had adopted the shameless foreign custom of riding in public without a veil. The Mahdi stopped her and poured out a stream of abuse at her for this neglect of established custom, then, overcome by his indignation, he pulled her off the beast she was riding. He seems, however, to have felt some alarm at his own temerity

and fled forthwith to Tinamel, where he openly raised the standard of revolt against a corrupt and unfaithful dynasty. At first this rebellion did not meet with much success, but, after the Mahdi's death, the leadership fell to his pupil, 'Abdu 1-Mumin, who took Oran, Tlemsen, Fez, Sale, Ceuta, and in 542 became master of Morocco, and in due course seized all the empire of the Murabits. The new dynasty established by 'Abdu 1-Mumin is known by the name of the Muwahhids or "Unitarians," a title which the Spanish historians render by "Almohades," and their rule endured until 667 A.H. (- 1268 A.D.).

Ibn Tumart professed to be a follower of al-Ghazali, and introduced his system of orthodox scholasticism to the West. In canon law he followed the reactionary school of Da'ud az-Zahiri and Ibn Hazm, like the Murabits who preceded him. To the multitude he was the champion of Berber nationality; he translated the Qur'an into the Berber language, and caused the call to prayer to be made in Berber instead of Arabic.

Muwahhid rule introduced a period of bigotry and of religious persecution. It was under the rule of this dynasty that we find the Jews leaving the country in large numbers and migrating to Africa or to Provence, and many Christians also fled to join the Gastilian forces in the north. Modern historians tend to condemn the later severities of Christian rulers towards their Muslim subjects, and often seem to speak of those subjects as the peaceable and cultured

population which had lived under the Umayyads and the Murabits. But Spain's last experience of the Muslims was of the fierce, bigoted, and persecuting Muwahhids, whose tone was very different. Strangely, however, it was under these intolerant rulers that Spanish Islam passed through its golden age of philosophical speculation, and not only so, but the philosophers were protected and favoured by the Muwahhid court. Quite early in this period the position seems to have been tacitly arranged that the philosophers were absolutely free in their work and teaching, provided that teaching was not spread abroad amongst the populace : it was to be regarded as a species of esoteric truth reserved for the enlightened. It seems almost certain that this attitude was deliberately arranged by the philosophers themselves ; it had already been sketched out by some of the Asiatic writers, and definitely laid down by al-Ash'ari and al-Ghazali, and the Muwahhids, it must be remembered, professed to be Ghazalians. But whilst the philosophers enjoyed this exceptional freedom of speculation, so different from the repressive orthodoxy of the Turkish dynasties in Asia, and defended the system in their writings, the rulers officially were enforcing amongst the multitude of their subjects the severest orthodoxy and the most reactionary system of jurisprudence, so reactionary that it was never admitted by the Asiatic sultans.

The first great leader of philosophical thought in Muwahhid Spain was *Ibn Tufayl* (d. 581 - 1185),

who was wazir and court physician under **the** Muwahhid Abu Yaqub (A.H. 558-580). His teaching was in general conformity with that of Ibn Bajja (Avempace), but the mystic element is much more strongly marked. He admits ecstasy as a means of attaining the highest knowledge and of approaching God. But in Ibn Tufayl's teaching this knowledge differs very much from that aimed at by the Sufis : it is mystic philosophy rather than mystic theology. The beatific vision reveals the Agent Intellect and the chain of causation reaching down to man and then back again to itself.

In his views as to the need of removing the doctrines of philosophy from the multitude he shows the same principles as Ibn Bajja, which are those which came to be recognised as the proper official attitude under the Muwahhids, and defends them in a romance called *Hayy b. Yaqzan*, " the Living One son of the Wakeful," the work by which his name is best remembered. In this story we have the picture of two islands, one inhabited by a solitary recluse who spends his time in contemplation and thereby raises his intellect until he finds that he is able to apprehend the eternal verities which are in the One Active Intellect. The other island is inhabited by ordinary people who are occupied in the commonplace incidents of life and follow the practices of religion in the form known to them. In this way they are content and happy, but fall far short of the complete and perfect happiness of the recluse on the other

island. In course of time the recluse, who is perfectly well aware of the neighbouring island and its inhabitants, begins to feel great pity for them in that they are excluded from the more perfect felicity which he enjoys, and in an honest desire for their welfare, goes over to them and preaches the truth as he has found it. For the most part he is quite unintelligible to them, and the only result is that he produces confusion, doubt, and controversial strife amongst those whom he desired to benefit, but who are incapable of the intellectual life which he has led. In the end he returns to his island convinced that it is a mistake to interfere with the conventional religion of the multitude.

Ibn Rushd (A.H. 520 = 595), known to the West as Averroes, was the greatest of the Arabic philosophers, and was practically their last. He was a native of Cordova and the friend and protégé of Ibn Tufayl, by whom he was introduced to Abu Ya'qub in 548. He was, however, more outspoken than Ibn Tufayl, and wrote several controversial works against al-Ghazali and his followers. The family to which he belonged was one whose members usually became jurists, and Ibn Rushd acted as Qadi in various Spanish towns; like most of the Arabic philosophers he studied medicine, and in 578 was appointed court physician to Abu Ya'qub. By this time he had finished his career as an author. Under the Muwahhid Abu Yusuf al-Mansur he was censured as a heretic and banished from Cordova. It must be remembered

that the Muwahhids, like the Murabits, **were really** Moroccan rulers, to whom Spain was a foreign province. It was whilst the Emir was in Spain **and** at Cordova, making ready for an attack **upon the** Christians, that Ibn Rushd was disgraced, and it seems probable that this was mainly a matter of policy, as the Emir, on the eve of a religious war, was desirous of proving his own strict orthodoxy by the public disapproval of one who had been rather too outspoken in his speculative theories. As soon as the Emir returned to Morocco the order of exile was revoked, and later on Ibn Rushd appears at the court of Morocco, where he died in 595.

Amongst the Muslims Ibn Rushd has not exercised great influence; it was the Jews who supplied the bulk of his admirers, and they, scattered in Provence and Sicily by Muwahhid persecution, seem to have been chiefly instrumental in introducing him to Latin Christendom.

His chief medical work was known as the *Kulliyat*, "the universal," which, under the Latinized name of "colliget," became popular as a manual in the mediaeval universities where the Arabic system of medicine was in use. He wrote also on jurisprudence a text-book of the law of inheritance, which is still extant in MS., and also produced works on astronomy and grammar. He maintained that the task of philosophy was one approved and commended by religion, for the Qur'an shows that God commands men to search for the truth. It is only the prejudice of the

unenlightened which fears freedom of thought, because for those whose knowledge is imperfect the truths of philosophy seem to be contrary to religion. On this topic he composed two theological treatises—" On the Agreement of Religion with Philosophy " and " On the Demonstration of Religious Dogmas," both of which have been edited by M. J. Mueller. The popular beliefs he does not accept, but he regards them as wisely designed to teach morality and to develop piety amongst the people at large; the true philosopher allows no word to be uttered against established religion, which is a thing necessary for the welfare of the people. Aristotle he regards as the supreme revelation of God to man : with it religion is in total agreement, but as religion is known to the multitude it only partially discloses Divine truth and adapts it to the practical needs of the many; in religion there is a literal meaning, which is all the uneducated are able to attain, and there is an " interpretation," which is the disclosing of deeper truths beneath the surface which it is not expedient to communicate to the multitude. He opposes the position of Ibn Bajja, who inclined to solitary meditation and avoided the discussion of philosophical problems; he admits and desires such discussion provided it is confined to the educated who are able to understand its bearing, and not brought before the multitude who are thereby in danger of having their simple faith undermined. He agrees with Ibn Bajja, however, as against Ibn Tufayl in disapproval of

ecstasy; such a thing may be, but it is too rare to need serious consideration.

There are different classes of men who fall roughly into three groups. The highest of these are those whose religious belief is based on demonstration (*burhan*), the result of reasoning from syllogisms which are *A priori* certain; these are the men to whom the philosopher makes his appeal. The lowest stratum contains those whose faith is based on the authority of a teacher or on presumptions which cannot be argued out and are not due to the exercise of pure reason ; it is mischievous to put " demonstration " or reason or controversy before people of this type, for it can only cause them doubt and difficulty. Intermediate between these two strata are those who have not attained the use of pure reason—which, with Ibn Rushd, seems to be simply intuition—but are capable of argument and controversy by means of which their faith can be defended and proved ; " demonstration " proper is not to be laid before these, but it is right to enter into argument with them and to assist them to rise above the level of those whose belief is based only upon authority.

Most of all, Ibn Rushd opposed the teaching of the *mutakallimin* or orthodox scholastic theologians, whom he regarded as subverting the pure principles of the Aristotelian philosophy, and of these he considered the worst to be al-Ghazali, " that renegade of philosophy " His leading controversial work is the *Destruction of the Destruction* (*Tahafat at-Tahafat*),

which he designed as a refutation of al-Ghazali's *Destruction of the Philosophers*.

But it was as a commentator on the text of Aristotle that he became best known to subsequent generations amongst the Jews and the later Latin scholastics; he was the great and final commentator. Strangely, however, Ibn Bushd never perceived the importance of reading Aristotle in the original; he had no knowledge of Greek, and gives no sign of supposing that a study of the Greek text would at all assist a student of the philosopher. The method of his commentaries is the time-honoured form derived from the Syriac commentators: a sentence of the text is given and the explanatory comments follow.

In main substance Ibn Bushd reproduces the psychology of Aristotle as interpreted by al-Farabi and Ibn Sina, but with some important modifications. In man is a passive and an active intellect: the active intellect is roused to action by the operation of the Agent Intellect, and thus becomes an acquired intellect; the individual intellects are many, but the Agent Intellect is but one, though present in each, just as the sun is one, but there are in action as many suns as there are bodies which it illuminates. This is the form of the Aristotelian doctrine as it had been transmitted through Ibn Sina; the Agent Intellect is one, but it is as by emanation present in each, so that the quickening power in each one is part of the universal Agent Intellect. But Ibn Bushd differs from his predecessors in his treatment of the passive

intellect, the *-aql hayyulani*, which is the seat of latent and potential faculties upon which the Agent operates. In all the earlier systems this passive intellect was regarded as purely individual and as operated on by the emanation of the universal Agent, but Ibn Bushd regarded the passive intellect also as but a portion of a universal soul and as individual only in so far as temporarily occupying an individual body. Even the passive powers are part of a universal force animating the whole of nature. This is the doctrine of *pampsychism*, which exercised so strong an attraction for many of the mediaeval scholastics, and has its adherents at the present day ; thus James {*Principles of Psychology*, p. 346) says: " I confess that the moment I become metaphysical and try to define the *more*, I find the notion of some sort of an *anima mundi* thinking in all of us to be a more promising hypothesis, in spite of all its difficulties, than that of a lot of absolutely individual souls." Ibn Bushd regards Alexander of Aphrodisias as mistaken in supposing that the passive intellect is a mere disposition ; it is in us, but belongs to something outside; it is not engendered, it is incorruptible, and so in a sense resembles the Agent Intellect. This doctrine is the very opposite to what is commonly described as materialism, which represents the mind as merely a form of energy produced by the activity of the neural functions. The activity of brain and nerves, according to Ibn Rushd, are duo to the presence of an external force; not only, as Aristotle teaches,

at least according to Alexander Aph.'s interpretation, is the highest faculty of the reason due to the operation of the external one Agent Intellect, but the passive intellect on which this agent acts is itself part of a great universal soul, which is the one source of all life and the reservoir to which the soul returns when the transitory experience of what we call life is finished,

Ibn Rushd's views do not receive much attention or criticism from Muslim scholars, but the Christian scholastics brought two main arguments against this theory, one psychological, the other theological. The psychological objection is that it is entirely subversive of individuality : if the conscious life of each is only part of the conscious life of a universal soul there can be no real *ego* in any one of us ; but there is no fact to which consciousness bears clearer witness than the reality and individuality of the *ego*. This did not touch the possibility that the individual soul might be drawn from a universal soul as its source, nor did it disprove that the individual soul might be reabsorbed again in the universal soul, but in so far as Ibn Rushd's view represented the soul as throughout a part of the universal soul it was argued that this is contrary to experience, which makes it clear that in this present life the *ego* is very distinctly individual. The theological argument was that Ibn Rushd's view denied the immortality of the soul, and so was contrary to the Christian faith. This objection deals more specifically with the reabsorption of the

soul of the individual in the universal soul; such cessation of separate and individual existence, it was argued, meant that the soul as such no longer existed.

As we have already noted, Aristotle gives a rather narrow range to the highest faculty of reason, confining its activity to the perception of abstract ideas ;⁴⁴ as to the things spoken of as abstract (the mind) thinks of them as it would of the being snub-nosed, if by an effort of thought it thinks of it *qua* snub-nosed, not separately, but *qua* hollow, without the flesh in which the hollowness is adherent: so when it thinks of mathematical forms, it thinks of them as separated, though they are not separated " (Aristot. *de anima*. iii. 7, 7-8). Those who followed Alexander Aph. and the neo-Platonists took this " abstract " in a very narrow sense, and in the Arabic commentators these abstractions even become non-substantial beings, as it were disembodied, or rather bodiless, spirits : " in quibusdam libris de Arabico translates substantiae separatae, quae nos angelos dicimus, intelligentiae vocantur " (S. Thos. Aquin. *Quaest. Disp. de anima*. 16). Can man know these *substantiae separatae* by his natural faculties ? Ibn Rushd says he can : if otherwise nature has acted in vain, for there would be an *intelligibile* without an *intelligens* to understand it ; but Aristotle has shewn (*Polit.* 1, 8, 12) that nature does nothing in vain, so that if there be an *intelligibile* there must be an *intelligens* capable of perceiving it. " The commentator (i.e. Ibn Rushd) says in 2 Met. comm. i. (in fine) that if abstract sub-

stances cannot be understood by us then nature has acted in vain, because it made that which is by nature understandable in itself to be not understood by anyone. But nothing is superfluous or in vain in nature. Therefore immaterial substances can be understood by us," (S. Thos. Aquin. *Summa*. 1, 88.)

As the Agent Intellect enters into communication with relative being it has to suffer the conditions of relativity, and so is not equally efficient in all; it acts on sensible images as form acts on matter, yet the Agent Intellect never becomes corruptible as that on which it acts.

These are in outline the points in the teaching of Ibn Rushd, which show the most marked differences from that of his predecessors, and which afterwards provoked most controversy amongst the Latin scholastics.

Ibn Rushd really ends the illustrious line of Arabic Aristotelians. A few Aristotelian scholars followed in Spain, but with the decay of the Muwahhid power these came to an end. Of those later scholars we may mention Muhyi ad-Din b. 'Arabi (d. 638) and 'Abdu l-Haqq b. Sab'im (d. 667). The former of these was primarily a Sufi, and shows a strong inclination towards pantheism. 'Abdu l-Haqq, the last of the Muwahhid circle, was also a Sufi, but at the same time an accurate student of Aristotle. In modern Islam there is no Aristotelian scholarship, save only in logic, where Aristotle has always held his own.

CHAPTEE X

THE JEWISH TEANSMITTOES

We have already seen that the Jews took a prominent part in bringing a knowledge of philosophical research from Asia to Spain, and Ibn Jabirul (Avengebrol) takes his place in the line of transmission by which Spanish Islam was brought into contact with these studies. This did not end the participation of the Jews in philosophical work, but their subsequent writers do not form part of the regular series of Aristotelian students influencing the Muslim world, but are rather confined to Jewish circles. Yet they are of an importance wider than merely sectarian interests, for it was by means of Jewish disciples of Ibn Eushd that he was raised to a position of much greater importance than he has ever enjoyed in the Muslim world. Amongst the Jews, indeed, there arose a strong Averroist school, which later on was the chief means of introducing Ibn Rushd's theories to Latin scholasticism. As we shall see later the transmission of philosophy from Arabic to Latin surroundings falls into two stages : in the earlier the Arabic material passes directly, and the works used are those which had attained a leading-importance in Islam, but in the later stage the Jews were the

intermediaries, and thus the choice of text-books and authorities was largely influenced by an existing Jewish scholasticism.

Ibn Jabirul shows the Aristotelian philosophy introduced to Jewish surroundings, just as Sa'id al-Fayyumi in Mesopotamia shows the entrance of Mu'tazilite discussions amongst the Jews. In fact, all the intellectual experiences of the Muslim community were repeated amongst the Jews. In Islam the Mu'tazilites and the philosophers were followed by the scholastics, who took their final form under al-Ghazali, and so in Judaism also al-Ghazali has his parallel.

The founder of an orthodox Jewish scholasticism was the Spanish Jew, *Jehuda ha-Levi* (d. 540 A.H. = 1145 A.D.), who lived during the Murabit rule and the coming of the Muwahhids. His teaching is known by a work entitled *Scfer ha-Kuzari*, which consists of five essays, supposed to be dialogues between the King of the Chazars and a Jewish visitor to his court. These dialogues discuss various topics of a philosophical and political character. The study of philosophy is commended, but it is pointed out that good conduct is not attained by philosophy, which is occupied with scientific investigations, and many of these have no direct bearing upon the duties of practical life; the best means of promoting right conduct is religion, which is the established tradition of wisdom revealed to men of ancient times. Even in speculative matters a surer guidance is often

furnished by religious tradition than by the speculations of philosophers. God created all things from nothing; the attempt to explain the presence of imperfection and evil in the world by the theory of the eternity of matter, or by the operation of laws of nature is futile; those laws themselves must refer back to God. The difficulty arising from the mingling of evil with good in creation is admitted; the real solution is unknown, but it must be maintained that creation was the work of God in spite of the difficulties which this presents.

As to the nature and attributes of God, the distinction which Sa'id al-Fayyumi tried to make between the essential and other attributes is untenable. The attributes stated in the Old Testament may be applied to God because they are revealed, which is exactly the same teaching as that of al-Ash'ari and al-Ghazali. These attributes are either referring to active qualities, or to relative, or to negative. Those which are active and those which are relative are used metaphorically; we do not know their real significance.

The fifth essay is more especially directed against the philosophers as teaching doctrines subversive of revelation. In the first place he disapproves the theory of emanations; the work of creation was directly performed by God without any intermediary; if there were emanations, why did they stop short at the lunar sphere! This refers to the descriptions given by the Arabic writers who endeavour to explain

the successive emanations from the First Cause as reaching down to different spheres. He opposes also the attempt of the Mutakallimin to reconcile philosophy and theology as tending to undermine the truths of revealed religion, so that he takes a more reactionary position than al-Ghazali. This was inevitable, for Jewish thought had as yet been much less influenced by philosophy than was the case with the Muslims. He objects also to the description of the soul as intellect, more it would appear because common usage confined "intellectual activity" too much to philosophical speculation, and especially he protested against the implication that only souls of philosophers were finally united to the Agent Intellect. The soul of man is a spiritual substance and imperishable; it does not win immortality by intellectual activity but is necessarily immortal by its own nature. He admits, however, that the passive soul in man is influenced by the Agent Intellect, which he seems to regard as the wisdom of God personified. Generally, therefore, Hal-Levi defined Jewish orthodoxy as against the teachings of the philosophers: he recognises the force of philosophical speculation, but is himself distinctly conservative. God was literally the creator, and no philosophical definition of creation which tended to explain it otherwise than according to traditional belief was permissible. But Hal-Levi does not seem to have had any great influence outside Judaism, and his work rather tends to show how far Jewish thought of the 6th cent, of

the Hijra was out of sympathy with current philosophical speculation, though no longer ignorant of it-

It was in Spain that the Jews especially distinguished themselves as physicians, reproducing and extending the investigations of the Arabic authorities, who were pupils of the Nestorians and Jews in the first place. The most distinguished of these Spanish Jews who became leaders in medical science was *Ibn Zuhr* (d. 595 A.H. - 1199 A.D.), commonly known to the mediæval West as "Avenzoar." He was a native of Seville and member of a family of physicians. Jewish philosophy does not take a leading place until the appearance of *Abu Imran Moses b. Maymun b. 'Abdullah* (d. 601 A.H. =1204 A.D.), a contemporary and follower of Ibn Rushd and the one who did most to establish an Averroist school, and so passed on his work and influence to Latin Christendom. He was the son of a pupil of Hal-Levi, and, it is said, a pupil of one of Ibn Bajja's pupils. His family retired to Africa to avoid the persecution of the Muwahhids and settled for a time in Fez, then removed to Egypt. It was whilst he was at Cairo that Ibn Maymun, or Maimonides as he is more commonly called by European writers, first heard of Ibn Rushd.

His chief work is known as *Dalalat al-Ha'rin*, "the Guide of the Perplexed," which, like all his other books, was produced in Arabic; about the time of his death this work was translated into Hebrew by

Samuel b. Tibbon as *Moreh Nebukin*. The Arabic text, edited by Munk, was published at Paris (3 vols.) in 1856-66, and in 1884 an English translation by Friedlander was published in London. Next to this in importance is the treatise *Maqalah fi-t-Tawhid*, a treatise on the unity of God, of which a Hebrew translation was made in the 14th cent. A.D. His other works were mainly medical, and include treatises "on poisons and their antidotes," "on haemorrhoids," "on asthma," and a commentary on Hippocrates.

Maimonides' teaching reproduces the substance of that already associated with al-Farabi and Ibn Sina put into a Jewish form. God is the Intellect, the *ens intelligens*, and the *intelligibile*: He is the necessary First Cause and the permanent source. He is essentially and necessarily one, and attributes cannot be so used as to imply plurality : only those attributes which describe activity are admissible, not those which imply relations between God and the creature. Like Ibn Rushd he disapproves of the Mutakallimin, whom he regards as mere opportunists in their philosophy and without any staple principles, besides which their method of compromise does not face fairly the law of causality. The Aristotelian doctrine of the eternity of matter cannot, however, be admitted ; creation must have been from nothing, as follows from the law of causality; that such was the case cannot be proved, but every contrary supposition is untenable. All the properties of

matter, the laws of nature, etc., had their beginning at creation. On the first day God created the beginnings (*reshit*), that is to say the intelligences, from which proceeded the several spheres, and introduced movement, so that on this day the whole universe and all its contents came into existence. On the succeeding days these contents were disposed in order and developed ; then on the seventh day God rested, which means that He ceased from active operation and laid the universe under the control of natural laws, which guided it henceforth.

The teaching of Maimonides shows a somewhat modified form of the system already developed by al-Farabi and Ibn Sina adapted to Jewish beliefs. It had a rapid and wide success, spreading through the greater part of the Jewish community in his own lifetime. But this success was not without some opposition—the synagogues of Aragon, Catalonga, and of Provence, where a very large number of Jews had sought refuge from the Muwahhids ; the synagogue at Narbonne, on the other hand, defended him. It was not until the following century, and chiefly by the efforts of David Kimchi, that Maimonides was at length generally accepted as the leading doctor of the Jewish church.

Although Maimonides was known to the Latin scholastics, it was not his work nor that of any other Jewish teacher which really made the Jews important to mediaeval western thought so much as the work they did in popularising Ibn Rushd, whom they

called "the soul and intelligence of Aristotle." Jewish MSS. of Aristotle are rarely found without Ibn Kushd's commentary, and his paraphrases very commonly bear the name of Aristotle at their head. It was as the commentator that he held so high a position in Jewish thought, and it was as the final and authoritative commentator that he finally took his place in Latin scholasticism introduced by Jewish teachers.

The Muwahhid persecution scattered many of the Spanish Jews to Africa and to Provence and Languedoc. Those who took refuge in Africa, like Maimonides, retained the use of the Arabic language, but Arabic quickly became obsolete amongst those who had fled north. No doubt the refugees in Provence found it necessary to use the Provencal dialect for communication with their Christian neighbours, but that dialect had never yet been used for scientific or philosophical purposes; in Western Christendom Latin was invariably used for all educational and scholarly purposes, but the refugee Jews did not feel disposed to adopt a language which had no traditional associations for them and was altogether a foreign tongue never as yet employed for Jewish purposes. Under these circumstances the Jewish leaders deliberately copied the actual condition prevailing amongst their Jewish neighbours where the ancient Latin was in use as a learned language, whilst its derived dialects were the speech in everyday use, and so they revived the use of Hebrew as

the medium of teaching and literature. Throughout Hebrew had retained its place as a liturgical language; there had been synagogue liturgies in Greek, but those belonged to a much earlier period. The revival of Hebrew produced a neo-Hebrew which does not preserve a line of historical continuity with the ancient Hebrew. For some time Hebrew had been a dead language in the East, and it had never spread as a living speech to the West. But this artificial revival, which has more than one parallel in history, was not so difficult a feat as it sounds at first. The vernacular speech of the Spanish Jew was Arabic, and philologically Arabic is very nearly a dialect if not of Arabic, yet at least of a proto-Arabic, which shows many close parallels with Hebrew. Of course at that time the true philological relations were not understood : influenced by theological prepossessions the Jew rather tended to regard Arabic as a derivative of Hebrew ; yet the kinship was obvious, and in the early translations made from Arabic to Hebrew it is not uncommon to find that most of the words are translated in such a way that the same root-form is used as in the original. Secondly, it was not only the case that Hebrew " came easily " to those who knew Arabic, but there had been serious philological studies by Jehudh Chayyug, David Kimchi, and others which had emphasized this close kinship, and had indeed adapted all the rules of Arabic grammar to the use of Hebrew ; it was therefore possible to compose and even to speak a tolerable Hebrew by the con-

scious rendering of the Arabic vocabulary into Hebrew. It is not suggested that the inaugurators of neo-Hebrew ignored the characteristics of the classical speech ; in fact they did not do so, but they were in a position to use Hebrew as though a dialect differing from Arabic only in detail, and in this attitude they were more strictly correct than they supposed. Before long Arabic began to be entirely discarded, and Hebrew, whose revival flattered Jewish susceptibilities, was taken up with vigour as a language of the schools ; how far it came into use in the home we do not know.

This change necessitated the translation of the later theological and philosophical writers from Arabic into Hebrew. Tradition puts the beginning of this work of translation in the 12th century, but this is not possibly true. It was not until well into the 13th century that Hebrew translations begin to appear. The most famous translators were of the family of Jehuda ben Tibbon, who cannot himself be accepted as a translator. The first work was done by Samuel ben Tibbon, who compiled a Hebrew " Opinions of the Philosophers," which is a catena of passages from Ibn Rushd and other Muslim *falasifah*. This production was in general use as a popular manual until it was replaced by complete translations of the actual texts, when, of course, such compilations went out of use. The principal part of the work was done by Moses ben Tibbon (circ. 1260 A.D.), who translated most of the commentaries of Ibn Rushd, some portions

of his medical works, and Maimonides- " Guide of the Perplexed."⁵ About this time Frederick II. was strongly desirous of introducing the Arabic writers to the knowledge of the West, a matter to which we shall refer again when we come to consider the translation of the Arabic philosophical works into Latin, and so we find him protecting and pensioning Yaqub ben Abba Mari, a son-in-law of Samuel ben Tibbon, at Naples, and this Yaqub employed in preparing a Hebrew translation of Ibn Rushd's commentaries on the Aristotelian Organon.

The thirteenth century A.D. shows us a continuous series of Hebrew scholars either preparing compilations and abridgments or actually translating the full text of the leading Arabic philosophers, and especially of Ibn Rushd. About 1247 Jehuda ben Salomo Cohen, of Toledo, published his Hebrew " Search for Wisdom," an encyclopaedia of Aristotelian doctrines mainly based upon the teachings of Ibn Rushd. A little later Shem-Tov b. Yusuf b. Falaquera also reproduced the doctrines of Ibn Rushd in his essays, and later again in the 13th century Gerson b. Salomo compiled " The Door of Heaven," which shows the same influence.

About 1257 Solomon b. Yusuf b. Aiyub, a refugee who had come from Granada to Beziers, translated the text of Ibn Rushd's commentary on the *de coelo* and *de mundo*, and in the latter part of this century complete translations begin to take the place of abridgments and collections of extracts. **About**

1284 Zerachia ben Isaac from Barcelona translated Ibn Rushd's commentaries on the *Physics*, the *Metaphysics*, and the treatises *de coelo* and *de mundo*. Bfenan has drawn attention to the fact that the same works are translated again and again, sometimes by translators who were very nearly contemporary and lived in the same neighbourhood. Evidently these translations did not quickly enter into wide circulation, and it does not seem that the task of the translator was held in any great esteem ; it was regarded as a purely mechanical work, and not credited with any literary possibilities.

Early in the 14th century Kalonymos b. Kalonymos b. Meir translated Ibn Rushd's commentaries on the *Topica*, *Sophistica*, and *analytica Posteriora* (completed 1314); then his commentaries on the *Physica*, *Metaphysics*, *de coelo* and *de mundo*, *de generatione* and *de corruptione*, and the *Meteora* (completed 1317), and followed these by a translation of the *Destruction of the Destruction*. An independent Hebrew translation of this latter work was made about the same time by Kalonymos b. David b. Todros. About 1321 Eabbi Samuel ben Jehuda ben Meshullam at Marseilles prepared Hebrew versions of Ibn Rushd's commentaries on the Nichomachean Ethics and his paraphrase of the Republic of Plato, which was regarded by the Arabic writers as part of the Aristotelian canon. It is rather interesting to note that somewhere about the same time Juda ben Moses ben Daniel of Rome prepared a Hebrew translation of *de substantia*

orbis from the Latin translation which was itself derived from the Arabic. To a great extent the Hebrew and Latin translations were being made contemporaneously but quite independently; it was not until well into the 14th century that they begin to influence one another. It was during this later stage that so many of the Arabic philosophical works were translated into Latin via Hebrew, and this gave a marked preponderance to Ibn Rushd, the result of the Jewish vogue of his writings ; the earlier translations into Latin from the Arabic rather tend to lay weight on Ibn Sina.

In the course of the 14th century A.D. the Hebrew commentators on Ibn Rushd begin. Chief amongst these was Lavi ben Gerson, of Bagnols, who wrote a commentary on Ibn Rushd's *Ittisal* on the doctrine of the union of the soul with the Agent Intelligence, and on Ibn Rushd's treatise "on the substance of the world." Levi's teaching reproduces the Arabic Aristotelianism much more freely and frankly than was ventured by Maimonides ; he admits the eternity of the world, the primal matter he describes as substance without form, and creation meant only the impress of form on this formless substance.

Contemporary with Levi was Moses of Narbonne, who, between 1340 and 1350, produced commentaries on the same works of Ibn Rushd as had already been treated by Levi, as well as other of the treatises on physical science.

The fourteenth century was the golden age of

Jewish scholasticism and the following century sees it in its decay. Ibn Rushd was still studied and commentaries were still compiled. About 1455 Joseph ben Shem-Tob of Segovia produced a commentary on Aristotle's *Ethics* which he intended to supplement Ibn Rushd, who had not written a commentary on this portion of Aristotle. Elias del Medigo, who taught at Padua towards the end of the 15th century, is regarded by Kfenan as the last great Jewish Averroist. He wrote a commentary on the *de substantia orbis* in 1485, and also published annotations on Averroes.

The 16th century shows the final decay of Jewish Averroism. In 1560 an abridgment of the logic of Averroes was published at Riva di Trento, and this has remained a standard work amongst Jews, but outside logic Averroes was beginning to fall into disrepute. Rabbi Moses Almosnino (circ. 1538) uses al-Ghazali's work against the philosophers to oppose Ibn Rushd, and evidences occur of an interest in Plato by those who despised Aristotle as a relic of the dark ages. The later Jewish philosophers such as Spinoza are not in touch with the mediaeval tradition, whose continuity is severed towards the end of the 16th century; later work shows the influence of post-renascence non-Jewish thought.

CHAPTER XI

INFLUENCE OF THE ARABIC PHILOSOPHERS ON LATIN SCHOLASTICISM

We have now followed the way in which Hellenistic philosophy was passed from the Greeks to the Syrians, from the Syrians to the Arabic-speaking Muslims, and was by the Muslims carried from Asia to the far West. We have now to consider the way in which it was handed on from these Arabic-speaking people to the Latins. The first contact of the Latins with the philosophy of the Muslims was in Spain, as might be expected. At that time, that is to say during the Middle Ages, we can rightly describe the Western parts of Europe as " Latin," since Latin was used not only in the services of the church but as a means of teaching and as a means of intercourse between the educated ; it does not imply that the vernacular speech in all the western lands was of Latin origin, and of course makes no suggestion of a " Latin race " ; it refers only to a cultural group, and we are employing the term " Latin " only to denote those who shared a civilization which may fairly be described as of Latin origin. In Spain this Latin culture was in contact with the Arabic culture of the Muslims. The transmission of Arabic material to Latin is

especially associated with Raymund, who was Archbishop of Toledo from 1130 to 1150 A.D. Toledo had become part of the kingdom of Castile in 1085, during the disordered period just before the Murabit invasion. It had been captured by Alfonso V I., and he had made it the capital city of his kingdom, and the Archbishop of Toledo became the Primate of Spain. When the town was taken it was agreed that the citizens should have freedom to follow their own religion, but the year after its capture the Christians forcibly seized the great church, which had been converted into a congregational mosque about 370 years before, and restored it to Christian use. For the most part, however, the Muslims lived side by side with the Christians in Toledo, and their presence in the same city as the king, the royal court, and the Primate made a considerable impression on their neighbours, who began to take some interest in the intellectual life of Islam during the following years. The Archbishop Raymund desired to make the Arabic philosophy available for Christian use. At the moment, it will be remembered, the Muwahhids were established in Spain, and their bigotry caused a number of the Jews and Christians to take refuge in the surrounding countries.

Baymund founded a college of translators at Toledo, which he put in the charge of the archdeacon Dominic Gondisalvi, and entrusted it with the duty of preparing Latin translations of the most important Arabic works on philosophy and science, and thus

many translations of the Arabic versions of Aristotle and of the commentaries as well as of the abridgments of al-Farabi and Ibn Sina were produced. The method employed in this college and the method commonly followed in the Middle Ages was to use the services of an interpreter, who simply placed the Latin word over the Arabic words of the original, and finally the Latinity was revised by the presiding clerk, the finished translation usually bearing the name of the revisor. It was an extremely mechanical method, and the interpreter was treated as of minor importance. It seems that the preparation of a translation was done to order in very much the same way as the copying of a text, and was not regarded as more intellectual than the work of transcription. The revisor did no more than see that the sentences were grammatical in form : the structure and syntax was still Arabic, and was often extremely difficult for the Latin reader to understand, the more so as the more troublesome words were simply transliterated from the Arabic. The interpreters employed in this college certainly included some Jews; it is known that one of them bore the name of John of Seville. We have very little information as to the circulation of the translations made at Toledo, but it is certain that about thirty years afterwards the whole text of Aristotle's logical Organon was in use in Paris, and this was not possible so long as the Latin translations were limited to those which had been transmitted by Boethius, John Scotus, and the fragments

of Plato derived through St. Augustine. But this material already in the possession of the West was the foundation of scholasticism, and was developed as far as it would go. Boethius transmitted a Latin version of Porphyry's *Isagoge* and of the *Categories* and *Hermeneutics* of Aristotle, whilst John Scotus translated the Pseudo-Dionysius. The further development of Latin scholasticism came in three stages: first, the introduction of the rest of the text of Aristotle, as well as the scientific works of the whole logical canon, by translation from the Arabic; then came translations from the Greek following the capture of Constantinople in 1204; and thirdly, the introduction of the Arabic commentators.

The first Latin scholastic writer who shows a knowledge of the complete logical Organon was John of Salisbury (d. 1182 A.D.), who was a lecturer at Paris, but it does not appear that the metaphysical and psychological works of Aristotle were in circulation as yet.

By this time Paris had become the centre of scholastic philosophy, which was now beginning to predominate theology. This takes its form, as yet untouched by Arabic methods, in the work of Peter Lombard (d. 1160 A.D.), whose "Sentences," an encyclopaedia of the controversies of the time but a mere compilation, remained a popular book down to the 17th century. The methods and form used in the "Sentences" shows the influence of Abelard, and still more of the Decretals of Gratian. It is interest-

ing to note that Peter Lombard possessed and used a newly finished translation of St. John Damascene.

Early in the 13th century we find various controversies at Paris on subjects very like those debated by the Arabic philosophers, but in reality derived from quite independent sources. Nothing would seem more suggestive of Arabic influence than discussion of the essential unity of souls, which seems as though it were an echo of Ibn Rushd ; but this doctrine had been developed independently from neo-Platonic material in the Celtic church, and, in its main features not at all unlike the teaching of Ibn Rushd, was fairly common in Ireland (cf. Renan : *Averroes*, 132-133). So we find Eatramnus of Corbey in the 9th century writing against one Macarius in refutation of similar views. Here Arabic influence is out of the question; at the time, indeed, Ibn Rushd was not yet born. So of Simon of Tournay, who was a teacher of theology at Paris about 1200 A.D., we read that " whilst he follows Aristotle too closely, he is by some recent writers accused of heresy " (Henry of Gand : *Lib. de script, eccles. c. 24* in Fabrisius *Bibliotheca*, 2, p. 121), but this simply means that he carried to an extreme the application of the dialectical method to theology.

More interest attaches to the decrees passed at a synod held at Paris in 1209 and endorsed by the decisions of the Papal Legate in 1215. These measures were provoked by the pantheistic teaching of David of Dinant and Amalric of Bena, who revived the semi-

pantheistic doctrines of John Scotus' *Periphyssis*, and the prohibitions dealing with them cite passages from Scotus verbatim. The *Periphyssis* itself was condemned by Honorius III. in 1225. But the decrees of 1209 also forbade the use of Aristotle's Natural Philosophy and the "commenta," whilst the Legate's orders of 1215 allowed the logical works of the old and new translations where perhaps the "new translations" refers to the "new" translations made from the Arabic as contrasted with the "old" versions of Boethius, though it is just possible that some version direct from the Greek was in circulation and known as the "new translations," and also forbade the reading of the *Metaphysics*, Natural Philosophy, etc., all material which had become accessible through the Arabic.

In 1215 Frederick II. became Emperor, and in 1231 he began to reorganize the kingdom of Sicily. Both in Sicily and in the course of his crusading expeditions in the East Frederick had been brought into close contact with the Muslims and was greatly attracted to them. He adopted oriental costume and many Arabic customs and manners, but, most important of all, he was a great admirer of the Arabic philosophers, whose works he was able to read in the original, as he was familiar with German, French, Italian, Latin, Greek, and Arabic. Contemporary historians represent him as a free-thinker, who regarded all religions as equally worthless, and attributed to him the statement that the world had suffered from

three great imposters, Moses, Christ, and Muhammad. This opinion of Frederick is expressed in passionate words by Gregory IX. in the encyclical letter "ad omnes principes et prelatos terrae" (in Mansi. xxiii. 79), where he compares the Emperor to the blaspheming beast of Apocalypse xiii., but Frederick in reply likened the Pope to the beast described in Apoc. vi., "the great dragon which reduced the whole world," and professed a perfectly orthodox attitude towards Moses, Christ, and Muhammad. It is quite probable, as Renan (*Averroes*, p. 293) supposes, that the views ascribed to Frederick really are based on a professed sympathy towards the Arabic philosophers, who regarded all religions as equally tolerable for the uninstructed multitude, and commonly illustrated their remarks by citing the "three laws" which were best known to them. In 1224 Frederick founded a university at Naples, and made it an academy for the purpose of introducing Arabic science to the western world, and there various translations were made from Arabic into Latin and into Hebrew. By his encouragement Michael Scot visited Toledo about 1217 and translated Ibn Rushd's commentaries on Aristotle's *de coelo et de mundo*, as well as the first part of the *de anima*. It seems probable also that he was the translator of commentaries on the *Meteora*, *Parva Naturalidy de substantia orbis*, *Physics*, and *de generatione et de corruptione*. Ibn Sina's commentaries were in general circulation before this, so that they were very probably the "commentaries" referred

to in the Paris decree of 1209, but we do not know who was responsible for their rendering into Latin, save that they almost certainly proceeded from the college at Toledo. The introduction of Ibn Rushd, not of great repute amongst the Muslims, bears evidence to the weight of Jewish influence in Sicily and in the new academy at Naples. We know that Michael Scot was assisted by a Jew named Andrew.

Another translator of this period was a German Hermann who was in Toledo about 1256, after Frederick's death. He translated the abridgment of the Bhetoric made by al-Parabi, Ibn Rushd's abridgment of the Poetics, and other less known works of Aristotle. Hermann's translations were described by Roger Bacon as barbarous and hardly intelligible ; he transliterated the names so as to show even the tanwin in Ibn Rosdin, abi Nasrin, etc.

By the middle of the 13th century nearly all the philosophical works of Ibn Rushd were translated into Latin, except the commentary on the Organon, which came a little later, and the *Destruction of the Destruction*, which was not rendered into Latin until the Jew Calonymos did so in 1328. Some of his medical works also were translated in the 13th century, namely, the *Colliget*, as it was called, and the treatise *de formatione*; others were translated from the Hebrew into Latin early in the following century.

The first evidence of the general circulation of ideas taken from Averroes (Ibn Rushd) is associated with William of Auvergne, who was Bishop of Paris,

and these show a considerable amount of inaccuracy in detail. In 1240 William published censures against certain opinions, which he states to be derived from the Arabic philosophers; amongst these he expresses his disapproval of the doctrine of the First Intelligence, an emanation from God, as being the agent of creation, a doctrine common to all the philosophers, but which he attributes specifically to al-Ghazali; he objects also to the teaching that the world is eternal, which he attributes correctly to Aristotle and Ibn Sina, but mentions Averroes as an orthodox defender of the truth ; he further condemns the doctrine of the unity of intellects, which most incorrectly he attributes to Aristotle, and also refers to al-Farabi as maintaining this heresy ; throughout he cites Averroes as a sounder teacher who tends to correct these ideas, but his description of the doctrine of the unity of intellects reproduces the features which are distinctive of Averroes. The arguments he uses against this latter doctrine are, on the whole, very much the same as those employed a little later by Albertus Magnus and St. Thomas, viz., that the doctrine undermines the reality of the individual personality, and is inconsistent with the observed facts of diversity of intelligence in different persons. He cites Abubacer (Ibn Bajja) as a commentator on Aristotle's *Physics*, but in fact this was a book on which Ibn Bajja did not write a commentary, and the substance of the citation agrees with the teaching of Averroes. At that time evidently the position was

that Aristotle and the Arabic commentators generally were regarded with suspicion save in the treatment of logic, the one exception being Averroes, who was considered to be perfectly orthodox. So strange a perversion of the facts could only be due to Jewish influence, for the Jews at that time were devoted adherents of Averroes.

When the friars began to take their place in the work of the universities we note two striking changes: (i.) the friars cut loose entirely from the timid policy of conservatism and begin to make free use of all the works of Aristotle and of the Arabic commentators, and also make efforts to procure newer and more correct translations of the Aristotelian text from the original Greek ; under this leadership the universities gradually became more modern and enterprising in their scientific work, though not without evidence of strong opposition in certain quarters, (ii.) As a natural corollary a more correct appreciation was made of the tendencies of the several commentators.

The leader in these newer studies was the Franciscan Alexander Hales (d. 1245), who was the first to make free use of Aristotle outside the logical Organon. His *Summa*, which was left unfinished and continued by the Franciscan William of Melitona, was based on the *Sentences* of Peter Lombard, and serves as a commentary to it. Peter Lombard, however, had not quoted Aristotle at all, whilst Alexander uses the metaphysical and scientific works as well as the logic.

From this time forth the Franciscans begin to use the Arabic commentators.

The more accurate study of Aristotle in mediaeval scholasticism begins with Aibertus Magnus (1206-1280), the Dominican friar who first really perceived the importance of careful and critical versions of the text, and thus introduced a strictly scientific standard of method. He studied at Padua, a daughter university of Bologna, but became a Dominican in 1223. His methods were followed and developed by his pupil, St. Thomas Aquinas (d. 1274), who arranged his work on the lines already indicated in Aibertus-commentary on Aristotle's *Politics*, lines which became the regulation method in Latin scholastic writers, and he was at pains to get new translations made directly from the Greek, which was now freely accessible; a new translation direct from the Greek was made by William de Moerbeka at the request of St. Thomas. But there is a significant change from the time when Aibertus delivered his lectures : in the work of Aibertus the commentator chiefly used was Ibn Sina, but in that of St. Thomas there is a free use of Averroes (Ibn Rushd), although St. Thomas shows that he is perfectly well aware of the peculiar doctrines held by this latter philosopher, and guards himself carefully from them.

St. Thomas frequently enters into controversy with the Arabic commentators, and especially attacks the doctrines (i.) that there was a primal indefinite matter to which form was given at creation (of.

Summa. lae quaes. 66, art. 2); (ii.) that there were successive series of emanations, a doctrine which had now assumed an astrological character; (iii.) that the Agent Intellect was the intermediary in creation (cf. Summa. 1, 45, 5 ; 47, 1 ; 90, 1); (iv.) that creation *ex nihilo* is impossible; (v.) that there is not a special providence ruling and directing the world ; and (vi.) most of all, the doctrine of the unity of intellects, a doctrine which, as he shows, is not to be found in Aristotle, Alexander of Aphrodisias, Avicenna, or Ghazali, but is a speculative theory of Averroes alone, at least in the form then becoming popular as pampsychism. All these objections were essentially the same as had been already brought forward by the orthodox scholastics of Islam, and undoubtedly al-Ghazali is used in refuting them. According to St. Thomas, the doctrine of pampsychism is entirely subversive of human personality and of the separate individuality of the *ego*, to which our own consciousness bears witness. God creates the soul for each child as it is born; it is no emanation, but has a separate and distinct personality. As a corollary he denies the *ittisal* or final " union," which involves the reabsorption of the soul in its source.

It is worth noting that St. Thomas received his education before joining the Dominican order in the university of Naples, which had been founded by Frederick II. and was a centre of interest in the Arabic philosophers, and this probably goes far to

account for his more accurate appreciation of their teaching. Unquestionably St. Thomas Aquinas must be regarded as the prince of the Latin scholastics, for it is he who first draws freely upon metaphysics and psychology and co-ordinates them with theology—the psychological analysis given in the *Secunda secundae* of the Summa is one of the best products of the Latin scholastics—and also he was the first to appreciate correctly the difficulties of translation and insist on an accurate rendering as essential to an understanding of Aristotle. For the most part, as we have noted, the mediaeval scholars undervalued the translator's task and were content with a hack interpreter, and saw no reason for applying themselves to the study of the original text, a view in which the Arabic philosophers shared. Incidentally St. Thomas was the first who makes free use of all the Arabic commentators and shows that he is fully aware of their defects. Undoubtedly he regarded Averroes as the best exponent of the Aristotelian text and the supreme master in logic, but heretical in his metaphysics and psychology.

About 1256 Averroes' teaching about the unity of intelligences was sufficiently widespread at Paris to induce Albertus to write his treatise "On the unity of the intellect against the Averroists," a treatise which he afterwards inserted in his Summa. In 1269 certain propositions from Averroes were formally condemned. At this time his works were well known, and there was a distinct party at Paris which

had adopted his views and which we may describe as a semi-Judaistic party. This time both Albertus and St. Thomas published treatises against the doctrine of the unity of intelligences.

Again in 1277 various Averroist theses were condemned at Paris, for the most part emanating from the Franciscans, who, as Bacon notes (opus Tert. 23), were strongly inclined towards Averroes both at Paris and in England, a condition which prevailed until the great Franciscan doctor Duns Scotus (d. 1308) took a definitely anti-Averroist line. Still, even in the 14th century, when Averroism was practically dead at Paris, it still retained its hold amongst the Franciscans in the English "nation."

The Dominicans were less favourably disposed towards the Arabic writers, at least after the time of Albertus, and show a much more careful estimate of their work. This was no doubt due to the fact that they had a house of Arabic studies in Spain, and were actually engaged in controversy with the Muslims. As a rule a careful distinction is drawn between Averroes the commentator, who is treated with great respect as an exponent of the text of Aristotle, and Averroes the philosopher, who is regarded as heretical. It seems as though there was a deliberate policy to secure Aristotle by sacrificing the Arabic commentators. Very characteristic of the work of the Dominicans was the *Pugio Fidei adversum Mauros et Judaeos* of Raymund Martini, who lived in Aragon and Provence ; he was familiar with Hebrew, and freely uses

the Hebrew translations of the Arabic philosophers. His arguments are largely borrowed from al-Ohazali's *Destruction of the Philosophers*. It is curious to note that, in his anxiety to defend Aristotle, he accuses Averroes of borrowing the doctrine of the unity of intelligences from Plato, and in a sense there was an element of truth in this, for the Averroist doctrine was ultimately derived from neo-Platonic sources. Baymund also cites the medical teaching of Averroes at a date earlier than any Latin version, and here again shows familiarity with the Hebrew translations.

John Baconthorp (d. 1346), the provincial of the English Carmelites and "doctor" of the Carmelite order, tends to palliate the heretical tendencies of Averroes' teaching, and was called by his contemporaries "the prince of Averroists," a title which was apparently regarded as a compliment.

Amongst the Augustinian friars Giles of Borne in his *de Erroribus Philosophorum* was an opponent of the teaching of Averroes, especially attacking the doctrine of the unity of souls and the union or *ittisal*, but Paul of Venice (d. 1429), of the same order, shows a tendency favourable to Averroism in his *Summa*.

The 13th century had generally used Ibn Sina (Avicenna) as a commentator on Aristotle, but in the 14th century the general tendency was to prefer Averroes, who was regarded as the leading exponent of the Aristotelian text even by those who disapproved his teaching.

The University of Montpellier as a centre of medical studies might be expected to use the Arabic authorities, but this university, though traditionally founded by Arabic physicians driven out of Spain, was re-founded as a distinctly ecclesiastical institution in the 13th century, and became the home of Greek medical studies based on Galen and Hippocrates, though probably the earlier texts in use were translated from the Arabic versions. To this more wholesome Greek character the university remained faithful, and there was always a tendency at Montpellier to regard the Arabic use of talismans and astrology in medicine as heretical. It was not until the beginning of the 14th century that the Arabic medical writers began to be used there at all, and they remained in quite a secondary rank. In 1304 Averroes' *Canones de medicinis laxativis* was translated from the Hebrew, and in 1340 we find that i. and iv. of the *Canons* of Avicenna are included in the official syllabus set for candidates for medical degrees, and from this time forward the lectures include courses on the Arabic physicians. In 1567 the Arabic medical works were definitely struck off the list of books required for examination in the schools at the petition of the students, but occasional lectures on the *Canons* of Avicenna were given down to 1607.

The real home of Averroism was the University of Bologna, with its sister University of Padua, and from these two centres an Averroist influence spread over all N.E. Italy, including Venice and Ferrara,

and so continued until the 17th century. It was a precursor of the rationalism and anti-church feeling of the renaissance, perhaps assisted by Venetian contact with the East. At Bologna Arabic influence was predominant in medicine; already in the later 13th century the medical course centres in the *Canon* of Avicenna and the medical treatises of Averroes, with the result that astrology became a regular subject of study, and degrees were granted in it. Most of the physicians of Bologna and Padua were astrologers, and were generally regarded as free-thinkers and heretics. Bologna had at one time enjoyed the favour of Frederick II., and he had presented the University with copies of the Latin translations prepared by his order from Arabic and Greek.

The "Great Commentary" was firmly established at Padua, and in 1334 the Servite friar Urbano de Bologna published a commentary on the commentary of Averroes, which was printed in 1492 by order of the general of the Servites. But it is Gaetano of Tiena (d. 1465), a canon of the cathedral at Padua, who is generally regarded as the founder of Paduan Averroism. He was less bold in his statements than the Augustinian Paul of Venice, but still quite definitely an Averroist in his teaching as to the Agent Intellect and the unity of souls, etc. He seems to have had a great popularity, as many copies of his lectures survive. This Averroist cult in Padua held good through the greater part of the 15th century.

Towards the end of the century, however, the reaction begins, and comes from two distinct sources. On one side Pomponat lectured at Padua on the *de anima*, but interprets it by the aid of Alexander of Aphrodisias and discards Averroes, setting forth his doctrines in the form of essays instead of the time-honoured commentary on the Aristotelian text. From this time (circ. 1495) the university of Padua was divided into two factions, the Averroists and the Alexandrians. Pomponat was at the same time a representative of more distinctly rationalist theories, towards which the Italian mind was then tending. It was not that Alexander was more difficult to reconcile with the Christian faith than Averroes, but that those whose scepticism was inclined to be more freely expressed took advantage of these new methods of interpretation to give free vent to their own opinions. Quite independent of these Alexandrians were the humanists proper, who objected most to the barbarous Latinity of the text-books in general use, and especially to the terminology employed in the translations made from the Arabic commentators. Representative of these was Thomseus, who about 1497 began to lecture at Padua on the Greek text of Aristotle, and to treat it very largely as a study of the Greek language and literature.

Philosophical controversy at this time was centred chiefly in the psychological problems connected with the nature of the soul, and especially with its separate existence and the prospects of immortality. This

indeed was perceived to be a crucial problem of religion and was very keenly debated. In the early years of the 16th century the controversy became even more prominent, until the Lateran Council of 1512 tried to check such discussions and passed a formal condemnation, which, however, was powerless to restrain the debates. It is to be noticed that these discussions did not arise from any philo-pagan attitude of the renaissance, although they favoured that attitude, but from the topics suggested by the study of the Arabic philosophers in "N.E. Italy, and had their beginning in the problem as to whether the soul at death could continue an individual existence or was reabsorbed in the source, the reservoir of life, whether Agent Intellect or universal soul.

Officially the University of Padua continued to maintain a moderate Averroism. In 1472 the *editio princeps* of Averroes' commentaries was published at Padua. Then in 1495-7 Niphus produced a fuller and more complete edition. Through the next half-century a series of essays, discussions, and analyses of Averroes were produced almost continuously, and in 1552-3 appeared the great edition of Averroes-commentaries, with marginal notes by Zimara. In the course of the 16th century, also, Padua produced a new translation of Averroes from the Hebrew. The last of the Averroist succession was Caesar Cremonini (d. 1631), who, however, shows strong leanings towards Alexandrianism. By this time the study of the Arabic philosophers in Europe was confined to the

medical writers and to the commentaries of Averroes.

Outside Padua and Bologna Averroes retained his position as the principal exponent of Aristotle to the end of the 15th century. In the ordinances of Louis XI. (1473) it is laid down that the masters at Paris are to teach Aristotle, and to use as commentaries Averroes, Albertus Magnus, Thomas Aquinas, and similar writers instead of William of Ockham and others of his school, which is no more than saying that the official attitude is to be realist and not nominalist.

With the 16th century the study of the Arabic commentators on Aristotle fell into disrepute outside Padua and its circle, but for a century more the Arabic medical writers had a limited range of influence in the European universities.

The actual line of transmission in and after the 15th century lay in the passage of the anti-ecclesiastical spirit developed in North East Italy under the influence of the Arabic philosophers to the Italian renaissance. The arrival of Greek scholars after the fall of Constantinople and the resultant interest developed in archaeological research diverted attention into a new direction, but this should not disguise the fact that the pro-Arabic element in scholastic days was the direct parent of the philopagan element in the renaissance, at least in Southern Europe. In northern lands it was the archaeological side which assumed greater importance and was brought to bear upon theological subjects.

CONCLUDING PARAGRAPH

We have now traced the transmission of a particular type of Hellenistic culture through the Syrian Church, the Zoroastrians of Persia, and the pagans of Harran to the Islamic community, where it was rather compromised by the patronage of those whom the official Muslim teachers decided to regard as heretics. In spite of this censure it has left a very distinct and enduring impression on Muslim theology and on popular beliefs. After a chequered career in the East it passed over to the Western Muslim community in Spain, where it had a very specialised development, which finally made a deeper impression on Christian and Jewish thought than on that of the Muslims themselves, and attained its final evolution in North-East Italy, where, as an anti-ecclesiastical influence, it prepared the way for the Renaissance. But this main line of development is not really the most important; all along that line it was branching off on one side or another, and its richest fruits must be sought in these side issues, in the scholasticism which, in Islam, in Judaism, and in Christianity, was a reaction from its teaching, and in the medical, chemical, and other scientific studies of the Middle Ages, which largely owed their inspiration to its influence. It is the most romantic history of culture drift which is known to us in detail.

CHRONOLOGICAL TABLE

**Tears from the death of the Prophet Muhammad
to the fall of the Muwahhid dynasty in Spain.**

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS.
11	632	Mar. 29	d. of Muhammad.
12	633	„ 18	[Abu Bakr Khalif.
13	634	„ 7	Umar Khalif.
14	635	Feb. 25	
15	636	» 14	
16	637	„ 2	
17	638	Jan. 23	Syria and Mesopotamia
18	639	„ 12	[conquered.
19	640	„ 2	
20	640	Dec. 21	Egypt conquered.
21	641	„ 10	Persia conquered.
22	642	Nov. 30	
23	643	„ 19	Uthman Khalif.
24	644	„ 7	
25	645	Oct. 28	
26	646	„ 18	
27	647	„ 7	
28	648	Sept. 25	
29	649	.. 14	

A.H.	A.D.	MUSLINI YEAR BEGINS.	LEADING EVENTS.
30	650	Sept.. 4	
31	651	Aug. 24	
32	652	„ 12	
33	653	» 2	
34	654	July 22	
35	655	„ 11	'Ali Khalif.
36	656	June 30	
37	657	„ 19	
38	658	„ 9	
39	659	May 29	
40	660	„ 17	
41	661	„ 7	Mu'awiya I. Khalif:
42	662	Apr. 26	[Umayyads.
43	663	„ 15	
44	664	„ 4	
45	665	Mar. 24	
46	666	„ 13	
47	667	„ 3	
48	668	Feb. 20	
49	669	» 9	Al-Hasan died. (2nd
50	670	Jan. 29	[Imam.)
51	671	» 18	
52	672	» 8	
53	672	Dec. 27	
54	673	„ 16	
55	674	» 6	
56	675	Nov. 25	

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS.
84	703	Jan. 24	
85	704	„ 14	
86	705	„ 2	<i>al-Walid</i> Khalif.
87	705	Dec. 23	
88	706	„ 12	
89	707	„ 1	
90	708	Nov. 20	
91	709	„ 9	
92	710	Oct. 29	
93	711	„ 19	
94	712	„ 7	
95	713	Sept. 26	
96	714	„ 16	<i>Sulayman</i> Khalif.
97	715	„ 5	
98	716	Aug. 25	
99	717	„ 14	<i>Umar II.</i> Khalif.
100	718	„ 3	
101	719	July 24	<i>Yazif</i> // Khalif.
102	720	„ 12	
103	721	„ 1	
104	722	June 21	
105	723	„ 10	
106	724	May 29	<i>Hisham</i> Khalif.
107	725	„ 19	
108	726	„ 8	
109	727	Apr. 28	
110	728	„ 16	

A.H.	A.D.	MUSLIM TEAR BEGINS.	LEADING EVENTS.
111	729	Apr. 5	
112	730	Mar. 26	
113	731	„ 15	
114	732	„ 3	
115	733	Feb. 21	
116	734	„ 10	
117	735	Jan. 31	
118	736	„ 20	
119	737	„ 8	
120	737	Dec. 29	
121	738	„ 18	
122	739	„ 1	
123	740	Nov. 26	
124	741	„ 15	
125	742	„ 4	
126	743	Oct. 25	Al-Walid I I . Khalif.
127	744	„ 15	Yazid III.—Ibrahim Khalifa.
128	745	„ 3	Marwan I I . Khalif.
129	746	Sept. 22	
130	747	„ 11	
131	748	Aug. 31	
132	749	„ 20	End of Umayyad dyn.—
133	750	„ 9	[As-Saffah Khalif.
134	751	July 30	
135	752	„ 18	
136	753	„ 7	Al-Mansur Khalif.

A.H.	A.D.	MUSLIM TEAS BEGINS.	LEADING EVENTS.
137	754	June 27	
138	755	„ 16	Umayyads established
139	756	„ 5	[at Cordova.
140	757	May 25	Ibn al-Muqaffa' killed.
141	758	„ 14	
142	759	„ 4	
143	760	Apr. 22	
144	761	„ 11	
145	762	„ 1	Baghdad founded.
146	763	Mar. 21	
147	764	„ 10	
148	765	Feb. 27	Imam Ja'far as-Sadiq
149	766	„ 16	[died.
150	767	„ 6	
151	768	Jan. 26	
152	769	„ 14	
153	770	„ 4	
154	770	Dec. 24	
155	771	„ 13	
156	772	„ 2	
157	773	Nov. 21	
158	774	„ 11	Al-Mahdi Khalif.
159	775	Oct. 31	
160	776	„ 19	
161	777	„ 9	
162	778	Sept. 28	
163	779	„ 17	

A.H.	A.D.	MUSLIM YEJ BEGINS.	LEADING EVENTS.
191	806	Nov. 17	
192	807	" 6	
193	808	Oct. 25	Al-Amin Khalif.
194	809	" 15	
195	810	" 4	
196	811	Sept. 23	
197	812	" 12	
198	813	" 1	Al-Ma'mun Khalif.
199	814	Aug. 22	
200	815	" 11	
201	816	July 30	
202	817	" 20	
203	818	" 9	
204	819	June 28	Ash-Shafi died.
205	820	" 17	
206	821	" 6	
207	822	May 27	
208	823	" 16	
209	824	" 4	
210	825	Apr. 24	
211	826	" 13	
212	827	" 2	Decree that Qur'an was
213	828	Mar. 22	[created.]
214	829	" 11	
215	830	Feb. 28	
216	831	" 18	[(circ.)
217	832	" 7	Bayt al-Hikma founded

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS.
218	833	Jan. 27	Al-Mu'tasim Khalif, [orthodox reaction.
219	834	" 16	(Capital removed to
220	835	" 5	[Samarra.)
221	835	Dec. 26	
222	836	" 14	
223	837	" 3	
224	838	Nov. 23	
225	839	" 12	
226	840	Oct. 31	Abu Hudhayl died.
227	841	" 21	Al-Wasiq Khalif.
228	842	" 10	
229	843	Sept. 30	
230	844	" 18	
231	845	" 7	An-Nazzam died.
232	846	Aug. 28	Al-Mutawakkil Khalif.
233	847	" 17	
234	848	" 5	
235	849	July 26	
236	850	" 15	
237	851	" 5	
238	852	June 23	
239	853	" 12	
240	854	" 2	
241	855	May 22	
242	856	" 10	
243	857	Apr. 30	

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS.
244	858	Apr. 19	
245	859	" 8	
246	860	Mar. 28	
247	861	" 17	Al-Muntasir Khalif.
248	862	" 7	Al-Musta'in Khalif.
249	863	Feb. 24	
250	864	" 13	
251	865	" 2	
252	866	Jan. 22	Al-Mu'tazz Khalif.
253	867	" 11	
254	868	Jan. 1	
255	868	Dec. 20	Al-Muhtadi Khalif.
256	869	" 9	Al-Mu'tamid Khalif [returns to Baghdad.
257	870	Nov. 29	Al-Bukhari died.
258	871	" 18	
259	872	" 7	
260	873	Oct. 27	(circ) al-Kindi died.
261	874	" 16	
262	875	" 6	
263	876	Sept. 24	
264	877	" 13	
265	878	" 3	
266	879	Aug. 23	
267	880	" 12	
268	881	" 1	
269	882	July 21	

A.H.	A.D.	MUSLIM TEAR BEGINS.	LEADING EVENTS.
270	883	Joly 11	
271	884	June 29	
272	885	„ 18	
273	886	„ 8	
274	887	May 28	
275	888	„ 16	
276	889	»» 6	
277	890	Apr. 25	
278	891	„ 15	
279	892	„ 3	Mu'tadid Khalif.
280	893	Mar. 23	
281	894	„ 13	
282	895	„ 2	
283	896	Feb. 19	
284	897	»» 8	
285	898	Jan. 28	
286	899	»» 17	
287	900	„ 7	
288	900	Dec. 26	
289	901	„ 16	Al-Muktafi Khalif
290	902	„ 5	
291	903	Nov. 24	
292	904	„ 13	
293	905	»» 2	
294	906	Oct. 22	
295	907	»» 12	Al Muqtadir Khalif.
296	908	Sept. 30	

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS.
297	909	Sept. 20	Fatimite Khalif at
298	910	„ 9	[Kairawan.
299	911	Aug. 28	
300	912	„ 19	Al-Ash'ari professes
301	913	„ 7	[orthodoxy.
302	914	July 27	
303	915	„ 17	
304	916	„ 5	
305	917	June 24	
306	918	„ 14	
307	919	» 3	
308	920	May 23	
309	921	„ 12	
310	922	„ 1	
311	923	Apr. 21	
312	924	» 9	
313	925	Mar. 29	
314	926	n 10	
315	927	„ 8	
316	928	Feb. 25	
317	929	„ 14	
318	930	» 3	
319	931	Jan. 24	
320	932	„ 13	Al-Qahir Khalif.
321	933	„ 1	
322	933	Dec. 22	ar-Razi Khalif.
323	934	„ 11	al-Mataridi d.

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS.
324	935	Nov. 30	Buwayhids seize Bagh- dad.
325	936	„ 10	
326	937	„ 8	
327	938	Oct. 28	al-Muttaqi Khalif.
328	939	„ 18	
329	940	„ 6	
330	941	Sept. 26	al-Mustakfi Khalif.
331	942	„ 15	
332	943	„ 4	
333	944	Aug. 24	Al-Muti' Khalif.
334	945	„ 13	
335	946	>, 2	
336	947	July 23	al-Farabi d.
337	948	„ 11	
338	949	» 1	
339	950	June 20	» »
340	951	„ »	
341	952	May 29	
342	953	„ 18	Apr. 27
343	954	„ 7	
344	955	Apr. 27	
345	956	„ 15	» -
346	957	„ -	
347	958	Mar. 25	
348	959	» W	» 3
349	960	„ 3	
350	961	Feb. 20	

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS.
378	988	Apr. 21	
379	989	" 11	
380	990	Mar. 31	Al-Qadir Khalif.
381	991	" 20	
382	992	" 9	
383	993	Feb. 26	
384	994	" 15	
385	995	" 5	
386	996	Jan. 25	
387	997	" 14	
388	998	" 3	Rise of Mahmud of
389	998	Dec. 23	[Ghazna.
390	999	" 13	
391	1000	" 1	
392	1001	Nov. 20	
393	1002	" 10	
394	1003	Oct. 30	
395	1004	" 18	
396	1005	" 8	
397	1006	Sept. 27	
398	1007	" 17	
399	1008	" 5	
400	1009	Aug. 25	
401	1010	" 15	
402	1011	" 4	
403	1012	July 23	
404	1013	" 13	

A.H.	A.D.	MUSLIM m BEGINS.	LEADING EVENTS.
405	1014	July 2	
406	1016	June 21	
407	1016	„ 10	
408	1017	May 30	
409	1018	» 20	
410	1019	„ 9	
411	1020	Apr. 27	
412	1021	» 17	
413	1022	» 6	
414	1023	Max. 26	
415	1024	„ 15	
416	1025	„ 4	
417	1026	Feb. 22	
418	1027	„ 11	
419	1028	Jan. 31	
420	1029	„ 20	
421	1030	„ 9	
422	1030	Dec. 29	Al-Qa'im Khalif.
423	1031	„ 19	
424	1032	„ 7	
425	1033	Nov. 26	
426	1034	„ 16	
427	1035	„ 5	
428	1036	Oct. 25	Ibn Sina (Avicenna) d.
429	1037	„ 14	
430	1038	» 3	
431	1039	Sept., 23	

A.H.	A.D.	MUSLIM TEAR BEGINS.	LEADING EVENTS,
459	1066	Nov. 22	
460	1067	" 11	
461	1068	Oct. 31	
462	1069	" 20	
463	1070	" 9	
464	1071	Sept. 29	
465	1072	" 17	
466	1073	" 6	
467	1074	Aug. 27	Al-Muqtadi Khalif.
468	1075	" 16	
469	1076	" 5	
470	1077	July 25	
471	1078	" 14	
472	1079	" 4	
473	1080	June 22	
474	1081	" 11	
475	1082	" 1	
476	1083	May 21	
477	1084	" 10	
478	1085	Apr. 29	
479	1086	" 18	
480	1087	" 8	
481	1088	Mar. 27	
482	1089	" 16	
483	1090	" 6	
484	1091	Feb. 23	
485	1092	" 12	

A.H.	A.D.	MUSLIM TEAK BEGINS.	LEADING EVENTS.
486	1093	Feb. 1	
487	1094	Jan. 21	Al-Musta'dbir Khalif.
488	1095	„ 11	
489	1095	Dec. 31	
490	1096	„ 19	
491	1097	„ 9	
492	1098	Nov. 28	
493	1099	„ 17	
494	1100	„ 6	
495	1101	Oct. 26	
496	1102	„ 15	
497	1103	„ 5	
498	1104	Sept. 23	
499	1105	„ 13	
500	1106	„ 2	
501	1107	Aug. 22	
502	1108	„ 11	
503	1109	July 31	
504	1110	„ 20	
505	1111	„ 10	Al-Ghazali died.
506	1112	June 28	
507	1113	„ 18	
508	1114	„ 7	
509	1115	May 27	
510	1116	„ 16	
511	1117	„ 5	
512	1118	Apr. 24	AJ-Mustarshid Khalif.

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS.
513	1119	Apr. 14	
514	1120	„ ²	
515	1121	Mar. 22	
516	1122	„ 12	
517	1123	„ 1	
518	1124	Feb. 19	
519	1125	„ 7	
520	1126	Jan. 27	
521	1127	„ 17	
522	1128	„ 6	
523	1128	Dec. 25	
524	1129	„ 15	Ibn Tumart the Mahdi
525	1130	„ 4	[died.]
526	1131	Nov. 23	
527	1132	„ 12	
528	1133	„ 1	
529	1134	Oct. 22	Ar-Eashid Khalif
530	1135	„ 11	Al-Muktafill.Khalif.
531	1136	Sept. 29	
532	1137	„ 19	
533	1138	„ 8	Ibn Bajja (Avempace)
534	1139	Aug. 28	[died.]
535	1140	„ 17	
536	1141	„ 6	
537	1142	July 27	
538	1143	„ 16	
539	1144	.. -	

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS,
540	1145	June 24	Jehuda ha'l-Levi died.
541	1146	" 13	
542	1147	" 2	
543	1148	May 22	
544	1149	" 11	
545	1150	Apr. 30	
546	1151	" 20	
547	1152	" 8	
548	1153	Mar. 29	
549	1154	" 18	
550	1155	" 1	
551	1156	Feb. 25	
552	1157	" 13	
553	1158	" 2	
554	1159	Jan. 23	
555	1160	" 12	
556	1160	Dec. 31	
557	1161	» 21	
558	1162	" 10	
559	1163	Nov. 30	
560	1164	" 18	
661	1165	" 7	
562	1166	Oct. 28	
563	1167	" 17	
564	1168	" 5	
565	1169	Sept. 25	

A.H.	A.D.	MUSLIM TEAR BEGINS.	LEADING EVENTS.
566	1170	Sept. 14	Saladin in Egypt: end [of the Fatimites.
567	1171	" 4	
568	1172	Aug. 23	
569	1173	» 12	
570	1174	" 2	
571	1175	July 22	An-Naair Khalif.
572	1176	» 10	
573	1177	June 30	
574	1178	" 19	
575	1179	» 8	
576	1180	May 28	Ibn Tufayl died.
577	1181	" 17	
578	1182	» 7	
579	1183	Apr. 26	
580	1184	" 14	
581	1185	» 4	
582	1186	Max. 24	
583	1187	" 13	
584	1188	» 2	
585	1189	Feb. 19	
586	1190	" 8	
587	1191	Jan. 29	
588	1192	" 18	
589	1193	" 7	
590	1193	Dec. 27	
591	1194	" 16	
592	1195	" 6	

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS.
503	1196	Nov. 24	
594	1197	" 13	
595	1198	" 3	Ibn Eusbd (Averroes) d.
596	1199	Oct. 23	
597	1200	" 12	
598	1201	" 1	
599	1202	Sept. 20	
600	1203	" 10	
601	1204	Aug. 29	Maimonides died.
602	1205	" 18	
603	1206	" 8	
604	1207	July 28	
605	1208	" 16	
606	1209	" 6	
607	1210	June 25	
608	1211	" 15	
609	1212	" 3	
610	1213	May 23	
611	1214	" 13	
612	1215	" 2	
613	1216	Apr. 20	
614	1217	" 10	
615	1218	Mar. 30	
616	1219	" 19	
617	1220	" 8	
618	1221	Feb. 25	
619	1222	" 15	

A.H.	A.D.	MUSLIM YEAR BEGINS.	LEADING EVENTS.
620	1223	Feb. 4	Ibn Tumlus died.
621	1224	Jan. 24	
622	1225	„ 13	Az-Zahir Khalif.
623	1226	„ 2	Al-Mustansir Khalif.
624	1226	Dec. 22	
625	1227	„ 12	
626	1228	Nov. 30	
627	1229	„ 20	
628	1230	„ 9	
629	1231	Oct. 29	
630	1232	„ 18	
631	1233	„ 7	
632	1234	Sept. 26	
633	1235	„ 16	
634	1236	„ -	
635	1237	Aug. 24	
636	1238	„ 14	
637	1239	„ 3	
638	1240	July 23	Ibn 'Arabi died.
639	1241	„ 12	
640	1242	„ 1	Al-Musta'sim Khalif.
641	1243	June 21	
642	1244	„ 9	
643	1245	May 29	
644	1246	„ 19	
645	1247	„ 8	
646	1248	Apr. 26	

A.U.	A.D.	MUSLIM YEAR BEGINS	LEADING EVENTS
647	1249	Apr. 16	
648	1250	" 5	
649	1251	Mar. 26	
650	1252	" 14	
651	1253	" 3	
652	1254	Feb. 21	
653	1255	" 10	
654	1256	Jan. 30	
655	1257	" 19	
656	1258	" 8	Halagu takes Baghdad:
657	1258	Dec. 29	[end of Khalifate.
658	1259	" 18	
659	1260	" 6	
660	1261	Nov. 26	
661	1262	" 15	
662	1263	" 4	
663	1264	Oct. 24	
664	1265	" 13	
665	1266	" 2	
666	1267	Sept. 22	
667	1268	" 10	Fall of the Muwahhids.

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