

## Introduction

It is true that I was born and brought up as a good Muslim, yet I admit that I was not satisfied at being a Moslem just because I was born so. That is why after getting my B.A., in English Literature. I started immediately a course of Islamic Studies.

These studies gave me the happiest and most gratifying time in my whole life, a feeling I would like to share with as many people as possible. They also, greatly satisfied my inner thirst for knowledge, so I find it my duty to share it with you.

The Holy Qur'an is not only sent for Arabic- speaking people , but it is a Holy Message for all peoples of the world. Hence the message of the Holy Qur'an speaks a universal Language that appeals to everyone irrespective of colour, religion or nationality i.e. the language of science. Here are two verses: the first shows the universality of the Message in the Holy Qur'an, and the second shows its new scientific Message :

O mankind, We have created you  
male and female, and appointed you  
races and tribes, that you may know  
one another. Surely the noblest  
among you in the sight of God is  
the most godfearing of you. God is  
All -knowing , All-aware.

Chapter 49 verse 13

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We shall show them our signs in the  
horizons and  
in themselves ,till it is clear to them  
that it is the truth. Suffices it not  
as to thy Lord, that He is witness over,  
everything ?

Chapter 41 verse 52

This is a modest attempt at proving the authenticity of every word in the Holy Qur'an. Some orientalist propagated the idea that Islam is the cause of our backwardness, I tell them that we are backward simply because we are a long way away from the teachings of Islam. If we are backward it is because of the stifling influence of foreign occupation. They made it their duty to suppress Islam and Muslims, and unfortunately they are still vigorously practicing this game. Had they had any belief in God they would not have suppressed the most truthful message the most healthy system. Had humanity followed such a system we would have led a much better way of life. That is why the first chapter of the first section shows everyone the status of science and scientists in Islam. The rest of the book deals with the scientific nature of some of the verses of the Holy Qur'an.

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## Part ONE

### Chapter I

#### THE STATUS OF SCIENCE AND SCIENTISTS IN ISLAM

Islam has urged man to study and gain knowledge, because all sciences will ultimately lead him to the truth about God. That is to say the more the scientist acquires knowledge the more he gets to know God beyond any doubt; and thus he fears God and follows all His orders and instructions in all his actions. God says, in this respect:

أَلَمْ تَرَ أَنَّ اللَّهَ أَنْزَلَ مِنَ السَّمَاءِ مَاءً فَأَخْرَجْنَا بِهِ ثَمَرَاتٍ مُخْتَلِفًا أَلْوَانُهَا  
وَمِنَ الْجِبَالِ جُدَدٌ بَيْضٌ وَحُمْرٌ مُخْتَلِفٌ أَلْوَانُهَا وَغَرَابِيبُ سُودٌ ﴿٢٧﴾  
وَمِنَ النَّاسِ وَالْدَوَابِّ وَالْأَنْعَامِ مُخْتَلِفٌ أَلْوَانُهُ كَذَلِكَ إِنَّمَا  
يَخْشَى اللَّهَ مِنْ عِبَادِهِ الْعُلَمَاءُ إِنَّ اللَّهَ عَزِيزٌ غَفُورٌ ﴿٢٨﴾

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سورة فاطر الآيات 27 - 28

Hast thou not seen how that God sends down out of heaven water  
and therewith We bring forth fruits of diverse hues?  
And in the mountains are streaks white and red ,of diverse hues,  
and pitchy black,  
men too, and beasts and cattle -diverse are their hues.  
Even so only those of His servants  
fear God who have knowledge; surely God is  
All mighty; All - forgiving.<sup>[1]</sup>

In the "House of Imran, chapter 3 verse 2 God raises "men possessed of knowledge "to the status of angels:

شَهِدَ اللَّهُ أَنَّهُ لَا إِلَهَ إِلَّا هُوَ وَالْمَلَائِكَةُ وَأُولُو الْعِلْمِ قَائِمًا بِالْقِسْطِ لَا  
إِلَهَ إِلَّا هُوَ الْعَزِيزُ الْحَكِيمُ ﴿١٨﴾

God bears witness that  
there is no god but He --

[1] Chapter 35 verses 27-28

and the angels, and men possessed of knowledge --  
upholding justice,  
there is no god but He,  
the All - mighty, the All- wise.

In chapter 39 verse 9, God says that learned people and ignorant ones are not equal:

هَلْ يَسْتَوِي الَّذِينَ يَعْلَمُونَ وَالَّذِينَ لَا يَعْلَمُونَ إِنَّمَا يَتَذَكَّرُ

أُولُوا الْأَلْبَابِ ﴿٩﴾

سورة الزمر

Say "are they equal- those who know and  
those who know not? Only men possessed  
of minds remember.

While in "Sheba" (chapter 34 verse 6) God says:

وَيَرَى الَّذِينَ أُوتُوا الْعِلْمَ الَّذِي أُنزِلَ إِلَيْكَ مِنْ رَبِّكَ هُوَ الْحَقُّ وَيَهْدِي

إِلَى صِرَاطٍ الْعَزِيزِ الْحَمِيدِ ﴿٦﴾

سورة سبأ  
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Those who have given knowledge see  
that what has been sent down to thee from thy  
Lord is the truth, and guides to the path of  
the All- mighty , the All- laudable.

The prestige and value of science and scientists is highly elevated in The Holy Qur'an, because the more man gains knowledge the more he is convinced that God is there. There is no wonder then, that the first verse came down from heaven, is a clear invitation to read and write. Chapter 96 opens with the following verses:

أَفْرَأَ بِاسْمِ رَبِّكَ الَّذِي خَلَقَ ﴿١﴾ خَلَقَ الْإِنْسَانَ مِنْ عَلَقٍ ﴿٢﴾

أَفْرَأَ وَرَبُّكَ الْأَكْرَمُ ﴿٣﴾ الَّذِي عَلَّمَ بِالْقَلَمِ ﴿٤﴾

عَلَّمَ الْإِنْسَانَ مَا لَمْ يَعْلَمْ ﴿٥﴾

سورة العلق

Recite. In the Name of thy Lord who created,  
created Man of a blood clot<sup>2[2]</sup>  
Recite . And thy Lord is the Most Generous,

2[2] (علق) means in Arabic "leach-Like " I'm going to explain in detail later on

who taught by the Pen,  
taught Man , that he Knew not.

God has given supreme status to science and scientists, because through the different scientific knowledge, man gains faith in Allah. He says:

إِنَّمَا يَخْشَى اللَّهَ مِنْ عِبَادِهِ الْعُلَمَاءُ إِنَّ اللَّهَ عَزِيزٌ غَفُورٌ ﴿٢٨﴾

سورة فاطر آية 28

..... only those of His servants  
fear God who have Knowledge.<sup>3[3]</sup>

God also orders us in The Holy Qur'an to meditate and think profoundly about His signs in heaven and on earth. He says:

إِنَّ فِي السَّمَوَاتِ وَالْأَرْضِ لَآيَاتٍ لِّلْمُؤْمِنِينَ ﴿٣﴾

وَفِي خَلْقِكُمْ وَمَا يَبُثُّ مِنْ دَابَّةٍ آيَاتٌ لِّقَوْمٍ يُوقِنُونَ ﴿٤﴾

وَأَخْتَلَفِ اللَّيْلَ وَالنَّهَارَ وَمَا أَنْزَلَ اللَّهُ مِنَ السَّمَاءِ مِنْ رِزْقٍ فَأَحْيَا بِهِ

الْأَرْضَ بَعْدَ مَوْتِهَا وَتَصْرِيفِ الرِّيْحِ آيَاتٌ لِّقَوْمٍ يَعْقِلُونَ ﴿٥﴾

سورة الجاثية الآيات 3 - 5

Surely in the heavens and the earth there are signs  
for the believers;  
and in your creation,  
and the crawling things He scattered abroad, there are signs  
for people having sure faith  
and in the alternation of night and day  
and the provision God sends down from heaven,  
and therewith revives the earth after it is dead,  
and the turning about of the winds, there are signs  
for a people who understand<sup>4[4]</sup>

To glorify knowledge and writing God, in chapter 68 " The Pen" , swears by it in verse one:

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ ﴿١﴾ ن وَالْقَلَمِ وَمَا يَسْطُرُونَ ﴿٢﴾ مَا أَنْتَ بِنِعْمَةِ رَبِّكَ بِمَجْنُونٍ ﴿٣﴾

3[3] Chapter 35 verse 28

4[4] Chapter 45 verses 3-5

## Nun

By the Pen, and what they inscribe

God praises scientists in many verses in The Holy Qur'an. Beside what is already mentioned we find in " The House of Imran " in two different places God tells us who are the men of knowledge? They are who worship God and meditate deeply and think profoundly about his creation:

إِنَّ فِي خَلْقِ السَّمَوَاتِ وَالْأَرْضِ وَأَخْتِلَافِ اللَّيْلِ وَالنَّهَارِ  
لَآيَاتٍ لِّأُولِي الْأَلْبَابِ ﴿١٩٠﴾  
الَّذِينَ يَذْكُرُونَ اللَّهَ قِيَمًا وَقُعُودًا وَعَلَىٰ جُنُوبِهِمْ وَيَتَفَكَّرُونَ فِي خَلْقِ  
السَّمَوَاتِ وَالْأَرْضِ رَبَّنَا مَا خَلَقْتَ هَذَا بَطْلًا سُبْحَانَكَ فَقِنَا عَذَابَ

q

om النَّارِ ﴿١٩١﴾

سورة آل عمران الآيات 190-191

Surely in the creation of heavens and earth  
and in the alternation of night and day  
there are signs for men possessed of minds  
who remember God, standing and sitting  
and on their sides, and reflect upon  
the creation of the heavens and the earth:  
"Our Lord, Thou hast not created this for  
vanity. Glory be to Thee! Guard us against  
the chastisement  
of the Fire ...." <sup>5[5]</sup>

In "The House of Imran " chapter 3 verse 7 God also says

هُوَ الَّذِي أَنْزَلَ عَلَيْكَ الْكِتَابَ مِنْهُ آيَاتٌ مُحْكَمَاتٌ هُنَّ أُمُّ الْكِتَابِ  
وَأُخَرٌ مُتَشَابِهَاتٌ فَأَمَّا الَّذِينَ فِي قُلُوبِهِمْ زَيْغٌ فَيَتَّبِعُونَ مَا تَشَابَهَ مِنْهُ  
أَبِغْيَاءَ الْفِتْنَةِ وَأَبِغْيَاءَ تَأْوِيلِهِ ۗ وَمَا يَعْلَمُ تَأْوِيلَهُ إِلَّا اللَّهُ وَالرَّاسِخُونَ فِي  
الْعِلْمِ يَقُولُونَ آمَنَّا بِهِ ۗ كُلٌّ مِّنْ عِنْدِ رَبِّنَا وَمَا يَذَّكَّرُ إِلَّا أُولُو الْأَلْبَابِ ﴿٧﴾

5[5] Chapter 3 Verse 7

: It is He, who sent down upon them the Book,  
wherein are verses clear that are the Essence  
of the Book, and others ambiguous.  
As those in whose hearts is swerving  
they follow the ambiguous part, desiring  
dissension, and desiring its interpretation,  
and none knows its interpretation, save  
only God. And those firmly rooted in  
knowledge say, "We believe in it, all  
is from our Lord," yet none remembers, but men  
possessed of minds.

In chapter 29 verse 49, God says:

بَلْ هُوَ آيَاتٌ بَيِّنَاتٌ فِي صُدُورِ الَّذِينَ أُوتُوا الْعِلْمَ وَمَا يَجْحَدُ بِآيَاتِنَا  
إِلَّا الظَّالِمُونَ ﴿٤٩﴾

سورة العنكبوت الآية 49

Nay, rather it is signs, clear signs  
in the breasts of those who have been given  
knowledge, and none denies Our signs but  
the evildoers

Prophet Mohammed's tradition, "sunna", is rich and clear in advocating all kinds of knowledge whether it is religious or scientific.

I will quote a few of his sayings from "Prophet of Islam Muhammad and some of His Traditions," by Ismail Kashmiri:

- 1) Scientists are the inheritors of Prophets.
- 2) The acquisition of knowledge is a duty incumbent on every Muslim, male and female.
- 3) Seek knowledge from the cradle to the grave.
- 4) He who leaves his home in search for knowledge walks on the path of Allah.
- 5) If Allah likes someone to be good, He makes him understand and learn. Certainly knowledge is the result of learning.

In Islam there is no contradiction between science and religion. On the contrary, there is a healthy close and balanced relationship between them both. In Islam there is a balance between the heart and the mind, between what is spiritual and ethereal and what is real and down to earth. A divine balance that gives each its due.

In this respect Dr. Maurice Bucaille in his book, "The Bible, The Qur'an and Science: The Holy Scriptures Examined in the Light of Modern Knowledge," says:

The association between the Qur'an and science  
is a priori a surprise, especially since it is going  
to be one of harmony and not of discord.

He goes on saying:

The Qur'an, while inviting us to cultivate science,  
itself contains many observations on natural  
phenomena and includes explanatory details,  
which are seen to be in total agreement with  
modern scientific data.

The greatness and strength of The Holy Qur'an lies in the fact that the more science progresses the more it reveals the authenticity and truth of what was written more than 1400 years ago when the whole world was deeply slumbering in the darkness of ignorance.

I do not mean that The Holy Qur'an could be proved by anything outside Itself, God forbid, but science makes what has been obscure to us clear like daylight. Science, in this way, is a means of clarification, and it strengthens and renews one's faith and makes one fears God The Almighty.

The Holy Qur'an stimulated the early Muslims to study the different sciences side by side with Islamic religious studies. Dr. Morad Hofmann <sup>[6]</sup> the ambassador of Germany to Rabat says in this respect, that the thirst for knowledge accompanied with the readiness of the Muslim to use his brain, had been the basis for flourishing the Islamic scientific studies. He goes on enumerating early fourteen Muslim scientists who had enriched the world scientific studies:

- 1) Ben Fernass (died in 888) to him is attributed the first attempt at using the air as a means of travelling.
- 2) Al -Khawarizmi (died in 846) who invented the science of Algebra; and from his name the word "Logarithm" is taken.
- 3) Ebn Bakr El Razy (864 –935) whose book of medicine remained a reference book for the students of medicine in the European Universities for many centuries.
- 4) The Philosopher and doctor Ibsina (Avicenna) (980-1037) whose medical encyclopedia remained in use in the European Institutes and Universities up till the 19<sup>th</sup> century.
- 5) Ibn El Hytham (965-1039) the inventor of what is called the dark room in optics.

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[6] "Islam as a Substitute", by Dr. Morad Hofmann, ambassador of Germany to Rabat.



- 6) El Bayrouni (973-1050). He was a historian of science, man of politics who learned astronomy, mineralogy, pharmacology and other sciences.
- 7) Omar El Khayam (died in 1211) the great poet who excelled in mathematics, astronomy and other sciences.
- 8) Ibn Rushd (Averroes) (1126-1198) The philosophers whose comments on Aristotle deeply affected the development of philosophy in Europe. Besides, it was he who discovered the black spots in the sun.
- 9) Ibn Alnafis (died in 1288) The Egyptian doctor - who discovered the blood circulation.
- 10) Ibn Battoutta ((1304-1377) the traveler who could be compared to Marco Polo.
- 11) Ibn Khaldoon (1332-1406) He truly deserves to be considered the initiator of Social science. In his book about history on modern basis, he referred to historical documents and criticized them.
- 12) Berry Rayers (1480-1553). The Turkish geographer and admiral who drew accurate marine maps that still earn admiration.
- 13) The sailor and discoverer, Ahmed Ben Magid, who was the mayor of sailors and their reference in sailing in the 15<sup>th</sup> century.
- 14) The marine scientist, Sidy Aly Rayess (died in 1562) who surveyed the Asian shores and helped in developing the astronomical sailing science.

Dr. Morad Hofmann goes on saying that this brief list of Muslim scientists shows that the West did not inherit the Hellenic culture, but it was the Muslims in the East who had inherited, developed and added to the Hellenic culture.

In "The Scientific Implication in The Holy Qur'an" the writer says that at the beginning of Islam, the first Muslims truly understood The Holy Qur'an. They took it as a divine order to study seriously and profoundly the different sciences concerning the universe and this world as a part of an indivisible whole. Anatomy and curative treatment was another branch of science studied carefully by Muslim scientists, as well as all other branches of science. This Divine order was an incentive to Muslim scientists to excel in them <sup>7[7]</sup>

In his book Dr. Maurice Bucaille says that:

----- at the height of Islam, between the eighth and twelfth centuries A.D. at a time when restrictions on scientific development were in force in the Christian world, a very large number of studies and discoveries were being made at Islamic Universities. It was there that the remarkable cultural resources of the time were to be found. The Calif's Library at Cordoba contained 400,000 volumes ...Greek, Indian and Persian sciences were taught. This is why scholars from all over Europe went to study at Cordoba, just as today people go to the United States to perfect their studies. A very great number of ancient manuscripts have come down to us thanks to cultivated Arabs who acted as the vehicle for the culture of conquered countries. We are also greatly indebted to Arabic culture for mathematics (algebra was an Arabic invention) astronomy, physics (optics), geology, botany, medicine etc.

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7[7] "The Scientific Implications in The Holy Qur'an.", by Chancellor Medhat Hafiz Ibrahim.

When man excels in the scientific subjects his belief in his Creator would emanate from true thinking and understanding. His prayer and prostration to God would be humble and filled with awe to the Mighty and Powerful yet Merciful and Compassionate Creator of man and the universe.

Scientists, in this way, would be as prophet Mohammed, prayers and peace may be upon him, says "scientists are the inheritors of Prophets." That is why God raises the scientists to the status of prophets, because they are able to prove God's existence in a materialistic world that gives the upper hand to worldly wealth and power:

شَهِدَ اللَّهُ أَنَّهُ لَا إِلَهَ إِلَّا هُوَ وَالْمَلَائِكَةُ وَأُولُو الْعِلْمِ قَائِمًا بِالْقِسْطِ لَا

إِلَهَ إِلَّا هُوَ الْعَزِيزُ الْحَكِيمُ ﴿١٨﴾

سورة آل عمران الآية 18

God bears witness that  
there is no god but He ----  
and the angels ,and men possessed of knowledge---  
Chapter 3 verse 18.

The integration of the various verses that deal with a certain universal phenomenon appeal to the ordinary person by their highly artistic style, and at the same time the scrutinizing scientist could find in them what satisfies his art and thought.

As for denying the existence of God, it is but a denial of the human brain and healthy thinking; and a sick deviation from the straightforward path that leads to worldly peace and everlasting happiness.

- **The Miraculous Nature of The Holy Qur'an**

The miraculous nature of The Holy Qur'an is always renewed according to time and place. The miraculous aspect of The Holy Qur'an such as the literary, linguistic, social, economic, and foretelling about future historical incidents that had been proved to be true...etc are well established. But God The All-Knowing knows well that there will be an age where the different branches of science will flourish and become subservient to The Holy Qur'an, and providing tangible proof that this Book is from God:

وَيَرَى الَّذِينَ أُوتُوا الْعِلْمَ الَّذِي أُنزِلَ إِلَيْكَ مِنْ

رَبِّكَ هُوَ الْحَقُّ وَيَهْدِي إِلَى صِرَاطٍ الْعَزِيزِ الْحَمِيدِ ﴿٦﴾

سورة سبأ آية 6

Those who have been given the knowledge see  
that what has been sent down to thee from thy

Lord is the truth, and guides to the path of  
the All- mighty, the All- laudable.  
Chapter 34 verse 6

Dr. Maurice Bacaille, in the same book, comments on his own experience with The Holy Qu'ran saying:

These scientific considerations, which are very specific to the Qur'an, greatly surprised me at first. Up till then, I had not thought it possible for one to find so many statements in a text compiled more than thirteen centuries ago referring to extremely diverse subjects and all of them totally in keeping with modern scientific knowledge.

..... I could not find a single error in the Qur'an. I had to stop and ask myself if a man was the author of the Qur'an, how could he have written facts in the seventh century A.D. that today is shown to be in keeping with modern scientific knowledge ... what human explanation can there be to this observation...

.....

..... How could a man, from being illiterate become the most important author, in terms of literary merit, in the whole of Arabic literature? How could he then pronounce truths of a scientific nature that no other human being could possibly have developed at the time, and all this without once making the slightest error in his pronouncements on the subject? ..... for me, there can be no human explanation to the Qur'an.<sup>8 [8]</sup>

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8[8] The Bible The Qur'an and Science", by Dr. Maurice Bucaille

## Chapter II

### • The Origin of the Universe

Hydrogen, the universal gas, is the origin of existence. Dr. El Fandy, in his book, "On Cosmic Verses in the Qu'ran", says that the "evolution of the universe was accomplished by a series of steps or developments accompanied by the gradual concentration of the universal gas by gravity, before it could take the form of, nebulae, galaxies, stars or planets."

In chapter 41 verses 9-11, The Holy Qur'an gives us an image that confirms this scientific discovery:

❖ قُلْ أَيُّكُمْ لَتَكْفُرُونَ بِالَّذِي خَلَقَ الْأَرْضَ فِي يَوْمَيْنِ وَتَجْعَلُونَ

لَهُ أَنْدَادًا ذَلِكَ رَبُّ الْعَالَمِينَ ﴿٩﴾

وَجَعَلَ فِيهَا رَوَاسِيَ مِنْ فَوْقِهَا وَبَارَكَ فِيهَا وَقَدَّرَ فِيهَا أَقْوَاتَهَا فِي أَرْبَعَةِ

أَيَّامٍ سَوَاءً لِّلسَّائِلِينَ ﴿١٠﴾

ثُمَّ أَسْتَوَىٰ إِلَى السَّمَاءِ وَهِيَ دُخَانٌ فَقَالَ لَهَا

وَاللَّارِضِ أَطِيعَا طَوْعًا أَوْ كَرْهًا قَالَتَا أَتَيْنَا طَائِعِينَ ﴿١١﴾

سورة فصلت آيات 9-11

Say: "What ,do you disbelieve in Him who created the earth in two days, and do you set up compeers to him? That is the Lord of all Beings.

And He set therein firm mountains over it and He blessed it, and He ordained therein its diverse sustenance in four days, equal to those who ask.

Then He lifted Himself to heaven when it was smoke, and said to it and to the earth, "come willingly, or unwillingly! " They said,

"We come willingly"

Chapter 41 verses (9-11)

What is amazing is that this verse shows the fact that all heavenly "bodies floating in the sky had begun in the form of a gas .This fact was almost endorsed by all theories of astronomy, whatever differences there were in details<sup>9[9]</sup>."

This verse shows that everything in the universe obey "willingly" God's orders. God's fixed physical laws enable man to gain knowledge and deduce theories by careful observation of the seen universe.

God, at His will, reveals to man some of His knowledge at the time and place He wishes. The All-Knowing says, in this respect.

وَلَا يُحِيطُونَ بِشَيْءٍ مِّنْ عِلْمِهِ إِلَّا بِمَا شَاءَ  
وَسِعَ كُرْسِيُّهُ السَّمَاوَاتِ وَالْأَرْضَ وَلَا يَئُودُهُ حِفْظُهُمَا وَهُوَ الْعَلِيُّ  
الْعَظِيمُ

سورة البقرة الآية 255

And they comprehend not anything of this knowledge  
save such as He wills  
Chapter 2 verse 255

Dr. El Fandy, goes on saying, in the same book, that "it is admitted that the big units in the universe or galaxies, go far away from each other with high speed. Thus the universe increases in size or expands. The more galaxies go far away, the quicker their release in the limitless space will be."

God, the Almighty, has mentioned this scientific fact in The Holy Qur'an.

وَالسَّمَاءَ بَنَيْنَاهَا بِأَيْدٍ وَإِنَّا لَمُوسِعُونَ

سورة الذاريات الآية 47

And heaven-We built it with might,  
and We extend it wide.  
Chapter 51 verse 47

We have come to know that the universe due to the receding of its galaxies expands beyond the range of magnifying glasses. It is estimated that there are in the universe **about one hundred thousand millions of galaxies\*** that are widely separated from each other. While other scientists say that there are billions of galaxies in the universe this gives us an idea as to the infinity of the universe; and how these galaxies float in complete harmony. This fact denotes without any doubt that a Mighty Power operates them according to a very accurate system, and this Mighty Power cannot be but God.

What is really interesting is that while galaxies recede beyond seen limits "new ones gradually show up", made of the same material as the old receding ones i.e. universal gas. "Such a gas strangely enough does not become extinct at all and its quantities in our seen universe do not diminish. Hence scientists query: from where does such gas come? Does

9[9] "On Cosmic Verses in the Qur'an", Dr. El Fandy,

it come from infinite space, in continuous succession, to replace the shortage in its quantities lost in the formation of new galaxies? Or does it come from a hidden place? Or is it being created?

Most of the clues and scientific evidences prove that the gas ... is created."<sup>10[10]</sup> We cannot but repeat with Allah in chapter 5 verse 17.

وَاللَّهُ مَلِكُ السَّمَوَاتِ وَالْأَرْضِ وَمَا بَيْنَهُمَا يَخْلُقُ مَا يَشَاءُ وَاللَّهُ

عَلَى كُلِّ شَيْءٍ قَدِيرٌ ﴿١٧﴾

سورة المائدة

For to God belongs the kingdom of the heavens  
and of the earth, and all that is between them,  
creating what He will. God is powerful  
over everything.

In The "Holy Qur'an", the eternal miracle of God, God speaks about the creation of the universe and the earth, He tells us in "chapter 21"verse 30:

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أَوَلَمْ يَرَ الَّذِينَ كَفَرُوا أَنَّ السَّمَوَاتِ وَالْأَرْضَ كَانَتَا رَتْقًا فَفَتَقْنَاهُمَا

وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ أَفَلَا يُؤْمِنُونَ ﴿٣٠﴾

سورة الأنبياء آية 30

Have not the unbelievers then beheld  
that the heavens and the earth were a mass  
all sewn up, and then we unstitched them  
and of water fashioned every living thing?

This verse indicates that the whole universe was originally a single entity. In science , scientists came out with a theory called "The Big- Bang Theory" which as Dr. El Fandy says that it is "a theory of cosmology in which the expansion of the universe is presumed to have begun in primeval explosion" <sup>11[11]</sup>, and that all galaxies were then "condensed together in an extremely limited space of unimaginable density." <sup>12[12]</sup>. Then suddenly "this condensed mass exploded and formed an unlimited number of clouds and dust

10[10] "On Cosmic Verses in the Qur'an" by Dr El Fandy.

11[11] "Islam and Science " Book 5, by Dr. El Fandy

12[12] "Islam and Science " Book 5, by Dr. El Fandy

which with the passage of time developed into galaxies receding under the power of explosion.”

The Big Bang theory reveals the following principles:

- 1) Scientists say that "the part of the universe that we actually observe represents the Entire cosmos." <sup>13[13]</sup>

God says in "chapter 35" verse 43:

أَسْتَكْبَارًا فِي الْأَرْضِ وَمَكْرَ السَّيِّئِ وَلَا يَحِيقُ الْمَكْرُ السَّيِّئِ إِلَّا بِأَهْلِهِ  
فَهَلْ يَنْظُرُونَ إِلَّا سُنَّتَ الْأَوَّلِينَ فَلَن تَجِدَ لِسُنَّتِ اللَّهِ تَبْدِيلًا وَلَن تَجِدَ

لِسُنَّتِ اللَّهِ تَحْوِيلًا ﴿٤٣﴾

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سورة فاطر آية 43

And thou shalt never find any changing  
the wont of God,  
and thou shalt never find any altering  
the wont of God.

Hence, if God's laws and order are fixed and unalterable, then the specimen which we can detect by putting it under observation could be a representative pattern for the whole.

- 2) The Holy Qur'an, a very long time ago, tells us that the universe expands and its origin was a big mass and by God's order it exploded and formed the galaxies that exist in the universe:

وَالسَّمَاءَ بَنَيْنَاهَا بِأَيْدٍ وَإِنَّا لَمُوسِعُونَ ﴿٤٧﴾

سورة الذريات آية 47

And heaven we built it with might

and we extend it wide  
Chapter 51 verse 47

God also says:

أَوَلَمْ يَرَ الَّذِينَ كَفَرُوا أَنَّ السَّمَوَاتِ وَالْأَرْضَ كَانَتَا رَتْقًا فَفَتَقْنَاهُمَا  
وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ أَفَلَا يُؤْمِنُونَ ﴿٣٠﴾

سورة الأنبياء آية 30

Have not the unbelievers then beheld  
that the heavens and the earth were a mass  
all sewn up, and then we unstitched them.  
Chapter 21 verse 30

These two quotations from The Holly Qur'an show that the whole universe was "all sewn up" and God has ordered this mass to be "unstitched" i.e. explode. That is how galaxies had been formed and started moving away from one another.

- 3) Scientists say that the universe must have a finite age, yet the end of the world yields only to God's will.

Dr. Maurice Bucaille says:

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Thus the stars have a life of their own and modern astronomy classifies them according to their present stage of evolution. The stars also have a death; in the final stage of their evolution, the violent implosion of certain stars has been observed so that they become veritable 'corpses'.

- 4) "According to the general theory of Relativity, the geometry of space is affected by the presence of matter in it, and traveling in space is thus accomplished in curved lines".<sup>14[14]</sup> The Holy Qur'an refers to this effect by the word "yaaruj" i.e. to move incurved lines:

يَعْلَمُ مَا يَلِجُ فِي الْأَرْضِ وَمَا يَخْرُجُ مِنْهَا وَمَا يَنْزِلُ مِنْ  
السَّمَاءِ وَمَا يَعْرُجُ فِيهَا وَهُوَ الرَّحِيمُ الْغَفُورُ ﴿٢﴾

سورة سبأ - آية 2

He knows what penetrates into the earth, and  
what comes forth from it,



what comes down from heaven, and what goes up to it<sup>15[15]</sup>  
He is the All-compassionate, the All-forgiving.  
Chapter 24 Verse 3

5) "Galaxies would eventually fall back together as soon as they start moving slower than some critical velocity of escape."<sup>16[16]</sup>  
To this effect God says in The Holy Qur'an:

يَوْمَ نَطْوِي السَّمَاءَ كَطَيِّ السِّجِلِّ لِلْكُتُبِ كَمَا بَدَأْنَا أَوَّلَ خَلْقٍ نُعِيدُهُ  
وَعَدًّا عَلَيْنَا إِنَّا كُنَّا فَاعِلِينَ ﴿١٠٤﴾

سورة الأنبياء – آية 104

On the day when We shall roll up heaven as a scroll is rolled  
for the writings; as We originated the first creation,  
so We shall bring it back again -a promise binding on Us;  
so We shall do  
Chapter 21 verse 104

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15[15] This means “yaaruj” which in Arabic means to move in curved lines.

16[16] ‘Islam and Science’, book V by Doctor El Fandy

## Chapter III

### • The End Of The Universe

As we have seen , the universe is expanding due to its evolution from a big-bang billions of years ago: yet, eventually after this stage of expansion " the entire universe will collapse and shrink by gravity into limited space as it happened to be at the beginning of creation.'<sup>17[17]</sup>

The Holy Qur'an endorses this theory. In Chapter 21 verse 104 , God says:

يَوْمَ نَطْوِي السَّمَاءَ كَطَيِّ السِّجِلِّ لِلْكُتُبِ كَمَا بَدَأْنَا أَوَّلَ خَلْقٍ نُعِيدُهُ  
وَعَدًّا عَلَيْنَا إِنَّا كُنَّا فَاعِلِينَ ﴿١٠٤﴾

سورة الأنبياء - آية 104

On the day when We shall roll up heaven as a scroll is rolled  
for the writings; as We originated the first creation,  
so We shall bring it back again - a promise binding on Us  
so We shall do.

Scientist have deduced a logical and a scientific conclusion as to, when Doomsday could be. But when exactly could it happen belongs only to God's Knowledge. God says in "chapter 16" verse 77 :

وَاللَّهِ غَيْبُ السَّمَوَاتِ وَالْأَرْضِ وَمَا أَمْرُ السَّاعَةِ إِلَّا  
كَلَمْحِ الْبَصَرِ أَوْ هُوَ أَقْرَبُ إِنَّ اللَّهَ عَلَى كُلِّ شَيْءٍ قَدِيرٌ



سورة النحل - آية 77

To God belongs the unseen in the heavens  
and in the earth.  
And the matter of the Hour is as a twinkling of the eye,  
or nearer.  
Surely God is powerful over everything.

And in "chapter 43" verse 85, God says:

وَتَبَارَكَ الَّذِي لَهُ مُلْكُ السَّمَوَاتِ وَالْأَرْضِ وَمَا بَيْنَهُمَا وَعِنْدَهُ عِلْمُ

السَّاعَةِ وَإِلَيْهِ تُرْجَعُونَ ﴿٨٥﴾

Glory be to Him , to whom belongs the Kingdom of the heavens and the earth and all that between them is; with Him is the Knowledge of the Hour, and to Him you shall be returned.

And in "Chapter 79" verses 42-46 God addresses prophet Mohammed saying:

يَسْأَلُونَكَ عَنِ السَّاعَةِ أَيَّانَ مُرْسَاهَا ﴿٤٢﴾ فِيمَ أَنْتَ مِنْ ذِكْرِهَا ﴿٤٣﴾  
إِلَىٰ رَبِّكَ مُنْتَهَاهَا ﴿٤٤﴾ إِنَّمَا أَنْتَ مُنذِرٌ مَّن يَخْشَاهَا ﴿٤٥﴾  
كَأَنَّهُمْ يَوْمَ يَرَوْنَهَا لَمْ يَلْبَثُوا إِلَّا عَشِيَّةً أَوْ ضُحَاهَا ﴿٤٦﴾

سورة النازعات - الآيات 42 - 46

They will question thee concerning the Hour, when it shall berth.  
What art thou about, to mention it?  
Unto thy Lord is the final end of it.  
Thou art only the warner of him who fears it.  
It shall be as if, on the day they see it,  
they have but tarried for an evening, or its forenoon.

Scientists have given us an image of how the universe will come to an end. They say, as I have mentioned before, that the velocity of all galaxies will be reduced and eventually they will shrink into a limited space, instead of the infinite space in which they swim now with extreme velocity, which enables them to move away from each other with great speed. This shrinking of galaxies into a very limited space would give us an insight as to how scary and awe inspiring the image could be. This terrifying image is stated in The Holy Qur'an in various verses to frighten man that he might come to his senses and worship God as properly as He should be worshiped i.e. with love, fear and hope of everlasting salvation.

Some people would ask when the Hour would come? I tell them it is very soon; at least the hour of each one of us would be at his death, which we can never tell (when it could be). In this respect God says in "Chapter 22" verse 55

وَلَا يَزَالُ الَّذِينَ كَفَرُوا فِي مِرْيَةٍ مِّنْهُ حَتَّىٰ تَأْتِيَهُمُ السَّاعَةُ بَغْتَةً  
أَوْ يَأْتِيَهُمْ عَذَابٌ يَوْمٍ عَقِيمٍ ﴿٥٥﴾

And the unbelievers will not cease  
to be in doubt of it, until the Hour  
comes on them suddenly, or there shall  
come upon them the chastisement of  
a barren day

And in "Chapter 75" verses (6-12) God says:

يَسْأَلُ أَيَّانَ يَوْمِ الْقِيَامَةِ ﴿٦﴾ فَإِذَا بَرِقَ الْبَصَرُ ﴿٧﴾  
وَخَسَفَ الْقَمَرُ ﴿٨﴾ وَجُمِعَ الشَّمْسُ وَالْقَمَرُ ﴿٩﴾  
يَقُولُ الْإِنْسَانُ يَوْمَئِذٍ أَيْنَ الْمَفَرُ ﴿١٠﴾  
كَأَلَّا وَزَرًا ﴿١١﴾ إِلَىٰ رَبِّكَ يَوْمَئِذٍ الْمُسْتَقَرُّ ﴿١٢﴾

سورة القيامة الآيات 6-12

asking "when shall be the Day of Resurrection?"

But when the sight is dazed  
and the moon is eclipsed,  
and the sun and the moon are brought together,  
upon that day man shall say, " Whither to flee?"  
No indeed; not a refuge!

Scientists say that when the sun expands and its extreme heat catches the moon, the earth's temperature will exceed 100 °C, hence it will not be available for any kind of life to prevail. What is really amazing is that in "The Holly Qur'an" in "Chapter 54" verses (1-2), God states:

أَفْتَرَبَتِ السَّاعَةُ وَانْشَقَّ الْقَمَرُ ﴿١﴾  
وَإِنْ يَرَوْا آيَةً يُعْرِضُوا وَيَقُولُوا سِحْرٌ مُّسْتَمِرٌّ ﴿٢﴾

سورة القمر الآيات 1-2

The Hour has drawn nigh: the moon is split.  
Yet if they see a sign they turn away, and they say  
"A continuous sorcery!"

In "Chapter 36" verses (48-53) God says:

وَيَقُولُونَ مَتَىٰ هَٰذَا الْوَعْدُ إِن كُنتُمْ صَادِقِينَ ﴿٤٨﴾

مَا يَنْظُرُونَ إِلَّا صَيْحَةً وَاحِدَةً تَأْخُذُهُمْ وَهَمُّ يَخِصِّمُونَ ﴿٤٩﴾

فَلَا يَسْتَطِيعُونَ تَوْصِيَةً وَلَا إِلَىٰ أَهْلِهِمْ يَرْجِعُونَ ﴿٥٠﴾

وَنُفِخَ فِي الصُّورِ فَإِذَا هُم مِّنَ الْأَجْدَاثِ إِلَىٰ رَبِّهِمْ يَنْسِلُونَ ﴿٥١﴾

قَالُوا يٰوَيْلَنَا مَنْ بَعَثَنَا مِن مَّرْقَدِنَا هَٰذَا مَا وَعَدَ الرَّحْمٰنُ وَصَدَقَ

الْمُرْسَلُونَ ﴿٥٢﴾

إِن كَانَتْ إِلَّا صَيْحَةً وَاحِدَةً فَإِذَا هُمْ جَمِيعٌ لَّدَيْنَا مُحْضَرُونَ ﴿٥٣﴾

سورة يس الآيات 48 - 53

They also say: "when shall this promise come to pass, if you speak truly?"

They are waiting only for one cry to seize them  
while they are yet disputing,  
then they will not be able to make any testament  
nor will they return to their people-

And the Trumpet shall be blown, then behold, they are sliding down  
from their tombs unto their Lord

They say, "Alas for us! Who roused us out of our sleeping place?  
This is what the All-merciful promised and the Envoys spoke truly"  
It was only one Cry, then behold, they are all arraigned before us

We stand in awe as to how the Holy Qur'an, 1400 years ago confirms the modern scientific idea that the whole universe will shrink into a limited space. In "Chapter 39" verses (67-68) God states:

وَمَا قَدَرُوا اللَّهَ حَقَّ قَدْرِهِ وَالْأَرْضُ جَمِيعًا قَبْضَتُهُ يَوْمَ الْقِيَامَةِ

وَالسَّمَوَاتُ مَطْوِيَّاتٌ بِيَمِينِهِ سُبْحٰنَهُ وَتَعٰلَىٰ عَمَّا يُشْرِكُونَ ﴿٦٧﴾

وَنُفِخَ فِي الصُّورِ فَصَعِقَ مَنْ فِي السَّمَوَاتِ وَمَنْ فِي الْأَرْضِ إِلَّا مَنْ شَاءَ

اللَّهُ ثُمَّ نُفِخَ فِيهِ أُخْرَىٰ فَإِذَا هُمْ قِيَامٌ يَنْظُرُونَ ﴿٦٨﴾

They measure not God with :His true measure,  
The earth shall be His handful  
on the day of Resurrection, and the heavens  
shall be rolled up in his right hand.  
 Glory be to Him! High be He exalted above  
 that they associate!

For the trumpet shall be blown, and whosoever is in heavens  
 and whosoever is in the earth shall swoon ,save whom God wills.  
 Then it shall be blown again, and lo they stand beholding

On Doomsday the picture will be terrifying and awe inspiring. God says in "Chapter 52" verses (9-11) :

يَوْمَ تَمُورُ السَّمَاءُ مَوْرًا ﴿٩﴾ وَتَسِيرُ الْجِبَالُ سَيْرًا ﴿١٠﴾

فَوَيْلٌ لِلْمُكْذِبِينَ ﴿١١﴾

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سورة الطور الآيات 9 - 11

Upon the day when heaven spins dizzily  
 and mountains are in motion,  
 woe that day unto those that **cries lies**.<sup>18[18]</sup>

In "Chapter 56" verses (1-6) God describes to what extent the terror will be at Doomsday, saying:

إِذَا وَقَعَتِ الْوَاقِعَةُ ﴿١﴾ لَيْسَ لِقَوْمِهَا كَذِبَةٌ ﴿٢﴾ خَافِضَةٌ رَافِعَةٌ ﴿٣﴾

﴿٤﴾ إِذَا رُجَّتِ الْأَرْضُ رَجًا ﴿٥﴾ وَبُسَّتِ الْجِبَالُ بَسًّا ﴿٦﴾

فَكَانَتْ هَبَاءً مُنْبَثًا ﴿٦﴾

سورة الواقعة الآيات 1 - 6

When the Terror descends

18[18] those who do not believe in God

(and none denies its descending)  
abasing, exalting ,  
when the earth shall be rocked  
and the mountains crumbled  
and become a dust scattered,

And in "Chapter 69" verses (13-17) God says:

فَإِذَا نُفِخَ فِي الصُّورِ نَفْحَةً وَاحِدَةً ﴿١٣﴾  
وَحُمِلَتِ الْأَرْضُ وَالْجِبَالُ فَدُكَّتَا دَكَّةً وَاحِدَةً ﴿١٤﴾ فَيَوْمَئِذٍ وَقَعَتِ الْوَاقِعَةُ ﴿١٥﴾  
وَأَنْشَقَّتِ السَّمَاءُ فَهِيَ يَوْمَئِذٍ وَاهِيَةٌ ﴿١٦﴾  
وَالْمَلَائِكَةُ عَلَىٰ أَرْجَائِهَا وَيَحْمِلُ عَرْشَ رَبِّكَ فَوْقَهُمْ يَوْمَئِذٍ ثَمَنِيَةٌ ﴿١٧﴾

سورة الحاقة الآيات 13 - 17

So when the Trumpet is blown with a single blast  
and the earth and the mountains are lifted up  
crushed with a single blow,  
then, on that day , the Terror shall come to pass,  
and heaven shall be split, for upon that day it  
shall be very frail,  
and the angels shall stand upon its borders, and  
upon that day eight shall carry above them the  
Throne of thy Lord.

To what extent people will be scared and frightened, God describes their state of terror  
in "Chapter 70"  
verses (8-14):

يَوْمَ تَكُونُ السَّمَاءُ كَالْمُهْلِ ﴿٨﴾ وَتَكُونُ الْجِبَالُ كَالْعِهْنِ ﴿٩﴾ وَلَا يَسْأَلُ حَمِيمٌ حَمِيمًا ﴿١٠﴾  
يُبْصِرُونَ وَهُمْ يَوَدُّ الْمُجْرِمُ لَوْ يَفْتَدِي مِنْ عَذَابِ يَوْمِئِذٍ بِبَنِيهِ ﴿١١﴾  
وَصَحْبَتِهِ وَأَخِيهِ ﴿١٢﴾ وَفَصِيلَتِهِ الَّتِي تُؤْوِيهِ ﴿١٣﴾  
وَمَنْ فِي الْأَرْضِ جَمِيعًا ثُمَّ يُنْجِيهِ ﴿١٤﴾

Upon the day when heaven shall be as molten copper,  
and the mountains shall be as plucked wool-tufts,  
no loyal friend shall question loyal friend, as  
they are given sight of them. The sinner will wish that he  
might ransom himself from the chastisement of that day even  
by his sons, his companion wife, his brother, his kin/ who  
sheltered him, and whomsoever is in the earth, all together  
so that then it might deliver him.

Again, in "chapter 80" verses (33-37) God stresses the same idea, saying:

فَإِذَا جَاءَتِ الصَّاعَةُ ۝ (٣٣) يَوْمَ يَفِرُّ الْمَرْءُ مِنْ أَخِيهِ ۝ (٣٤) وَأُمِّهِ وَأَبِيهِ ۝ (٣٥)  
وَصَلْبَتَيْهِ وَبَنِيهِ ۝ (٣٦) لِكُلِّ أَمْرٍ مِنْهُمْ يَوْمَئِذٍ شَأْنٌ يُغْنِيهِ ۝ (٣٧)

سورة عبس الآيات 33-37 [queriesonislam.wordpress.com](http://queriesonislam.wordpress.com)

And when the Blast shall sound  
upon the day when a man shall flee from his brother,  
his mother, his father,  
his consort, his sons  
every man that day shall have business to suffice him.

God makes it very clear that Doomsday or the Hour happens only at His will. In  
"chapter 99" verses (1-8) God the Almighty says:

إِذَا زُلْزِلَتِ الْأَرْضُ زِلْزَالَهَا ۝ (١) وَأَخْرَجَتِ الْأَرْضُ أَثْقَالَهَا ۝ (٢) وَقَالَ الْإِنْسَانُ مَا لَهَا ۝ (٣)  
يَوْمَئِذٍ تُحَدِّثُ أَخْبَارَهَا ۝ (٤) بِأَنَّ رَبَّكَ أَوْحَىٰ لَهَا ۝ (٥)  
يَوْمَئِذٍ يَصْدُرُ النَّاسُ أَشْتَاتًا لِيُرَوْا أَعْمَلَهُمْ ۝ (٦)  
فَمَنْ يَعْمَلْ مِثْقَالَ ذَرَّةٍ خَيْرًا يَرَهُ ۝ (٧) وَمَنْ يَعْمَلْ مِثْقَالَ ذَرَّةٍ شَرًّا يَرَهُ ۝ (٨)



When the earth is shaken with a mighty shaking  
and earth brings forth her burdens,  
and man says, "what ails her?"  
Upon that day she shall tell her tidings  
for that her Lord has inspired her.  
Upon that day men shall issue in scatterings to see their works,  
and whoso has done an atom's weight of good shall see it  
and whoso has done an atom's weight of evil shall see it.

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## Chapter IV

### • The Sky

The "sky" as used in The Holy Qur'an is the atmosphere that surrounds our earth and the blue dome, which we see above us. While the word "skies" or "heavens" denotes what surrounds all heavenly bodies in the universe.

The sky as mentioned in The Holy Qur'an beside its charm and the beautiful sight we always watch day and night, has multiple scientific benefits for man. As for the benefits of day and night they are known to everybody nowadays. But, how this day and night happen to be, is one of God's wonders and signs.

Dr. M.G. El-Fandy says that The Holy Qur'an (1) "quotes the (facts) that reflect on the glory of organization, grandeur of creation, precision, supreme cohesion of purpose, proof of Divine, unique intelligence and elimination of the so-called "accidental <sup>19[19]</sup> creation" God states in "Chapter 21" verse 32:

وَجَعَلْنَا السَّمَاءَ سَقْفًا مَحْفُوظًا وَهُمْ عَنْ آيَاتِهَا مُعْرِضُونَ ﴿٣٢﴾

سورة الأنبياء الآية 32

And we set up the heaven as a roof  
well- protected; yet still from our signs  
they are turning away.

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Dr. El-Fandy in the same book, says:

The earth's roof is its atmosphere. It is composed of a mixture of gases, which are preserved and not allowed to escape into space due to the relatively large gravity of the earth. This condition could not be realized on the moon, which lost its roof and thus became roofless, due to its relatively small gravitational force. In this way the moon soon lost the water of its oceans and seas. It evaporated into the vast space.

The earth's atmosphere or roof provides vital services to all living creatures on earth:

- 1) "It contains oxygen necessary for the life of both the animals and the plant kingdoms, as well as Man's
- 2) It carries water vapour from the earth's surface up to the upper layers of the atmosphere where clouds form and give rain. This process involves the source of fresh water on earth.
- 3) It contains the carbon dioxide gas, which is absorbed by plants receiving sunlight by day to form sugar, starch, oil .....
- 4) Sound waves propagate through the air, thus we can hear the voice of each other. This is not the case on the moon.

- 5) Daylight is due to the scattering and diffuse reflection of sunrays in the thin air layer extending from the earth's surface up to 200 kilometers and facing the sun. This layer may be referred to as the (skin-layer). The rest of the atmosphere and space are dark and dim. As the earth rotates the skin-layer keeps facing the sun and appears as though it is flayed from the body of the atmosphere.<sup>20[20]</sup>

Thus we can see that the scattering of sunlight is the reason behind daytime on earth. If we ascend outside the atmosphere of the earth, we find that the universal space is dark in spite of the fact that the sun is there. This means that the light is snatched from the night. In this respect God says in "chapter 36" verse 37:

وَعَايَةٌ لَهُمُ اللَّيْلُ نَسَلَحُ مِنْهُ النَّهَارَ فَإِذَا هُمْ مُظْلِمُونَ ﴿٣٧﴾

سورة يس آية 37

And a sign for them is the night; we strip it of the day and lo, they are in darkness.

And in "chapter17" verse 12 God states:

وَجَعَلْنَا اللَّيْلَ وَالنَّهَارَ آيَاتَيْنِ ۖ فَمَحَوْنَا آيَةَ اللَّيْلِ وَجَعَلْنَا آيَةَ النَّهَارِ مُبْصِرَةً ۖ لِتَبْتَغُوا فَضْلًا مِّن رَّبِّكُمْ وَلِتَعْلَمُوا عَدَدَ السِّنِينَ وَالْحِسَابَ ۚ وَكُلَّ شَيْءٍ فَصَّلْنَاهُ تَفْصِيلًا ﴿١٢﴾

سورة الإسراء آية 12

We have appointed the night and the day as two signs; then we have blotted out the sign of the night, and made the sign of the day to see, and that you may seek bounty from your Lord, and that you may know the numbers of the years, and the reckoning; and everything we have distinguished very distinctly.

These two verses show that night is the original phenomenon in the universe and daylight is not but the scattering of sunrays in the lowest layer of the atmosphere. "This means that the blue sky at day time is but an optical phenomenon."

God has, in The Holy Qur'an, described the atmosphere that surrounds the earth in a very simple, but highly scientific way. In (chapter 13) verse 2 God states clearly that:

اللَّهُ الَّذِي رَفَعَ السَّمَوَاتِ بِغَيْرِ عَمَدٍ تَرَوْنَهَا ثُمَّ أَسْتَوَىٰ عَلَى الْعَرْشِ  
وَسَخَّرَ الشَّمْسَ وَالْقَمَرَ كُلٌّ يَجْرِي لِأَجَلٍ مُّسَمًّى يُدَبِّرُ الْأَمْرَ  
يُفَصِّلُ الْآيَاتِ لَعَلَّكُمْ بِلِقَاءِ رَبِّكُمْ تُوقِنُونَ ﴿٢﴾

سورة الرعد آية 2

God is He who raised up the heavens  
without pillars you can see,

And in (chapter 31) verse 10, God repeats the same idea saying:

خَلَقَ السَّمَوَاتِ بِغَيْرِ عَمَدٍ تَرَوْنَهَا وَأَلْقَىٰ فِي الْأَرْضِ رَوَاسِيَ أَن تَمِيدَ  
بِكُمْ وَبَثَّ فِيهَا مِن كُلِّ دَابَّةٍ وَأَنْزَلْنَا مِنَ السَّمَاءِ مَاءً فَأَنْزَلْنَا فِيهَا مِن كُلِّ  
زَوْجٍ كَرِيمٍ ﴿١٠﴾

سورة لقمان آية 10

He created the heavens without pillars  
you can see, and He has cast on earth  
firm mountains, lest it shake with you,

Is not the atmosphere that surrounds the earth (and other heavenly bodies) is raised without pillars which we can see; but which we can identify now as the earth's gravity? The word "heavens" here means the entire universe with all its planets, stars and galaxies where each swims in its own orbit. In (chapter 21) verse 33, God says, "All revolve in orbits", and in "Chapter 36" verse 40, God says "each swims along/in (its own) orbit."

These divine verses include accurate scientific meanings:

- 1) All celestial bodies run in orbits and are bound by gravity. And they keep "their relative positions by centrifugal force and universal gravity".

- 2) By God's will and mercy, He has built an atmospheric belt or cover that surrounds the earth to protect it from cosmic rays and bands of meteorites which run at a very high "speed of about 45 miles per second ". Dr. El -Fandy in his book "Cosmic Verses in The Qur'an", adds "Although the size of such a meteorite will not exceed at all the size of one particle of sand, it causes direct injury, in case it collides with a human body no less in damage than any resulting form a direct fire shot". He goes on adding that thousands of millions of meteorites fall "every day down to the upper atmosphere of the earth, when the latter penetrates their path. But these meteorites soon evaporate or burn out.... The atmospheric cover protects us from their dangers. The same happens to meteors, but because of the big size of some of them, meteors sometimes reach the earth." The most famous ones are: The big Siberian Meteor (1908) and the one that fell down on Arizona.

If this is the image of the outside universe, it is but natural that space travelers should be in great danger and must be very cautious. To this danger God says in chapter 72 verses 8-9

وَأَنَّا لَمَسْنَا السَّمَاءَ فَوَجَدْنَاهَا مُلِئَتْ حَرَسًا شَدِيدًا وَشُهَبًا ﴿٨﴾  
 وَأَنَّا كُنَّا نَقْعُدُ مِنْهَا مَقْعِدًا لِّلسَّمْعِ ۖ فَمَنْ يَسْتَمِعِ الْآنَ يَجِدْ لَهُ  
 شِهَابًا رَّصَدًا ﴿٩﴾

سورة الجن الآيات 8 – 9

And we stretched towards heaven, but we  
 found it filled with terrible guards and meteors.  
 We would sit there on seats to hear; but  
 any listening now finds a meteor in wait  
 for him.

And in (chapter 55) verses 33-35 God says:

يَدْمَعُونَ السَّمَاءَ بِمَا أَغْطَتْهَا  
 وَالْأَرْضَ فَمَا نَفْذُوا إِلَّا بِسُلْطَانٍ ﴿٣٣﴾  
 فَبِأَيِّ آلَاءِ رَبِّكُمَا تُكَذِّبَانِ ﴿٣٤﴾  
 يُرْسَلُ عَلَيْكُمَا شُوَاظٌ مِّن نَّارٍ وَنُحَاسٌ فَلَا تَنْتَصِرَانِ ﴿٣٥﴾

سورة الرحمن الآيات 33 – 35

O tribe of jinn and of men, if you are able to pass through the confines of heaven and earth, pass through them! You shall not pass through except with an authority.<sup>21[21]</sup>

O which of your Lord's bounties will you and you deny? against you shall be loosed a flame of fire, and molten brass: and you shall not be helped.

These two verses show the following:

- 1) The "universal space is not an absolute vacuum"
- 2) That " around the earth there are complete bands or belts containing big assemblies of electronic kept in space under the effect of the earth's magnetic field. These electrons are ejected from the sun with great energy. No living body can expose itself to such bands nor penetrate them without great precautions ..... Here, again, the atmospheric cover of the earth hinders such rays from reaching us".<sup>22[22]</sup>
- 3) To overcome such danger scientists only in this century discovered what is called the geometry of space. Concerning this point Dr. El- Fandy says "according to the general theory of Relativity, the geometry of space is affected by the presence of matter in it, and travelling in space is thus accomplished in curved lines". The Holy Qur'an miraculously introduces the verb "Ya a ruj" which means to move in curved lines and not in straight ones.

Now, we know that in the geometry of space, there are no straight lines; and The Holy Qur'an as always has been ahead of time and science, says in (chapter 70) verses 3-4.

مِّنَ اللَّهِ ذِي الْمَعَارِجِ ﴿٣﴾

تَعْرُجُ الْمَلَائِكَةُ وَالرُّوحُ إِلَيْهِ فِي يَوْمٍ كَانَ مِقْدَارُهُ خَمْسِينَ أَلْفَ سَنَةٍ ﴿٤﴾

المعارج الآيات 3 – 4

From God, the Lord of the Stairways/Ma'arig/  
To him the angels and the spirit mount up in a day /yaaruj/  
whereof the measure is fifty thousand years.

And in (chapter 34) verse 2 God says:

يَعْلَمُ مَا يَلْجُ فِي الْأَرْضِ وَمَا يَخْرُجُ مِنْهَا وَمَا يَنْزِلُ مِنْ

السَّمَاءِ وَمَا يَعْرُجُ فِيهَا وَهُوَ الرَّحِيمُ الْغَفُورُ ﴿٢﴾  
21[21] The authority of God.  
22[22] "On cosmic verses in the Qur'an", Dr. M.J. El Fandy

He knows what penetrates into the earth, and  
 what comes forth from it  
 what comes down from heaven and what goes up to it/ya' aruj/  
 He is the All-Compassionate, the All-forgiving.

Controversies take place everywhere as to whether there is any sort of life outside our planet or not. And ,I think there must be other creatures whether more or less intelligent than us. I say this, because God has not created this infinite universe with its billions of galaxies only for the benefit of a gang of unthankful human beings. In many verses, The Holy Qur'an, speaks about those in the heavens" and those on "earth". In "chapter 3" verse 83 God says:

أَفَغَيْرَ دِينِ اللَّهِ يَبْغُونَ وَلَهُ أَسْلَمَ مَنْ فِي السَّمَوَاتِ  
 وَالْأَرْضِ طَوْعًا وَكَرْهًا وَإِلَيْهِ يُرْجَعُونَ ﴿٨٣﴾

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سورة آل عمران آية 83

Seek they then other than Allah's religion? And  
 to Him submitted whoever in the heavens and  
 the earth.

And in "Chapter 16" verse 49 God says:

وَاللَّهُ يَسْجُدُ مَا فِي السَّمَوَاتِ وَمَا فِي الْأَرْضِ مِنْ  
 دَابَّةٍ وَالْمَلَائِكَةُ وَهُمْ لَا يَسْتَكْبِرُونَ ﴿٤٩﴾

سورة النحل آية 49

To God bows everything in the heavens, and every  
 creature crawling on the earth, and the angels.  
 they have not waxed proud .....

Here is another translation from book IV "Islam and Science" it reflects The Holy Qur'an more correctly:

And to Allah makes obedience every living creature  
 that is in the heavens and that is in the earth and

the angels(too) and they are not proud

In "chapter 17" there are two verses 44 & 55 that deal with the same idea:

تُسَبِّحُ لَهُ السَّمَوَاتُ السَّبْعُ وَالْأَرْضُ وَمَنْ فِيهِنَّ وَإِنْ مِنْ شَيْءٍ إِلَّا يُسَبِّحُ

بِحَمْدِهِ وَلَكِنْ لَا تَفْقَهُونَ تَسْبِيحَهُمْ إِنَّهُ كَانَ حَلِيمًا غَفُورًا ﴿٤٤﴾

وَرَبُّكَ أَعْلَمُ بِمَنْ فِي السَّمَوَاتِ وَالْأَرْضِ وَلَقَدْ فَضَّلْنَا بَعْضَ النَّبِيِّينَ عَلَى

بَعْضٍ وَعَاتَيْنَا دَاوُدَ زَبُورًا ﴿٥٥﴾

سورة سبأ آية 44 ، 55

The seven heavens and the earth, and whosoever  
in them is extol Him ..... (verse 44)

And thy Lord knows very well all  
who are in the heavens and the earth; (verse 55)

And in "Chapter 27" in verses 65&87 God says:

قُلْ لَا يَعْلَمُ مَنْ فِي السَّمَوَاتِ وَالْأَرْضِ الْغَيْبَ إِلَّا اللَّهُ وَمَا يَشْعُرُونَ أَيَّانَ

يُبْعَثُونَ ﴿٦٥﴾

سورة النمل آية 65

Say : none knows the Unseen in the heavens and earth  
except God.  
and they are not aware  
when they shall be raised;  
"verse 65"

وَيَوْمَ يُنْفَخُ فِي الصُّورِ فَفَزِعَ مَنْ فِي السَّمَوَاتِ وَمَنْ فِي

الْأَرْضِ إِلَّا مَنْ شَاءَ اللَّهُ وَكُلٌّ أَتَوْهُ دَاخِرِينَ ﴿٨٧﴾

سورة النمل آية 87

On the day the Trumpet is blown, and terrified is whosoever  
is in the heavens and the earth, excepting whom God wills,  
and every one shall come to Him, all utterly abject;  
(The Ant- verse 87)



In Chapter 42 God makes it possible that those on earth and those in heaven could meet. In verse 29 God says :

وَمِنْ آيَاتِهِ خَلْقَ السَّمَوَاتِ وَالْأَرْضِ وَمَا بَثَّ فِيهِمَا مِنْ دَابَّةٍ وَهُوَ عَلَىٰ  
جَمْعِهِمْ إِذَا يَشَاءُ قَدِيرٌ ﴿٢٩﴾

سورة الشورى آية 29

And of His signs  
is the creation of the heavens and the earth  
and the crawling things He has scattered abroad in them;  
and He is able to gather them whenever He will

We can detect from the previous verses the following:

- 1) The existence of beings outside our planet.
- 2) To those who might say that angels inhabit heavens, God differentiates very clearly between angels and other creatures in chapter 16 verse 49.
- 3) At God's will, the encounter between the inhabitants of the earth and other planets could happen.

Here is an Islamic challenge to scientists and astronauts to try very hard to explore and find those inhabitants before more intelligent creatures could find us.

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Dr. M. Hassab El Naby has an interesting interpretation of some verses in the Holy Qur'an and which enriches and adds to what is written previously. He says that:

The conquest of space is hinted at directly without any trace of ambiguity in the following verses:

يَدْمَعَشَرَ الْجِنِّ وَالْإِنْسِ إِنْ أَسْتَطَعْتُمْ أَنْ تَنْفُذُوا مِنْ أَقْطَارِ السَّمَوَاتِ  
وَالْأَرْضِ فَانْفُذُوا لَا تَنْفُذُونَ إِلَّا بِسُلْطَانٍ ﴿٣٣﴾  
فَبِأَيِّ آلاءِ رَبِّكُمَا تُكَذِّبَانِ ﴿٣٤﴾  
يُرْسَلُ عَلَيْكُمْ شَوَاطِئٌ مِّنْ نَّارٍ وَنَحَاسٍ فَلَا تَنْتَصِرَانِ ﴿٣٥﴾

سورة الرحمن الآيات 33 - 35

O tribe of Jinn and of men if you are able to  
pass through the confines of heaven and earths,  
pass through them! You shall not pass through  
except with an authority  
O which of your Lord's bounties will you and you deny?

Against you shall be loosed  
a flame of fire, and molten  
brass and you shall not be helped.  
Chapter 55 verses 33 – 35

Here the Jinns and men are addressed collectively indicating that they cannot possibly escape out of the Zones of the earth and heavens without power from God. They should, therefore, be grateful to God for the chances of the conquest of space, He the exalted has given them!<sup>23[23]</sup>

He goes on proving that God in The Holy Qur'an has hinted at space travel. He illustrates it with two verses.(Chapter 36 verses 41 – 44):

وَءَايَةٌ لَهُمْ أَنَّا حَمَلْنَا ذُرِّيَّتَهُمْ فِي الْفُلِكِ الْمَشْحُونِ ﴿٤١﴾  
وَخَلَقْنَا لَهُمْ مِنْ مِثْلِهِ مَا يَرْكَبُونَ ﴿٤٢﴾ وَإِنْ نَشَأْ نُغْرِقْهُمْ فَلَا صَرِيحَ لَهُمْ وَلَا هُمْ يُنقذُونَ ﴿٤٣﴾  
إِلَّا رَحْمَةً مِنَّا وَمَتَاعًا إِلَىٰ حِينٍ ﴿٤٤﴾

سورة يس الأيات 41 - 44  
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And a sign for them is that We carried their seed  
in the laden ship,  
and We have created for them the like of it  
whereon they ride;  
and if We will, We drawn them,  
then none have they to cry to  
neither they are delivered  
save as a mercy from Us, and enjoyment for a while

Is it by chance that scientists call the machine that carries them through space a “ship”, and is it by mere coincidence that God says “and We have created for them the like of it / whereon they ride;” What completes this images is what God says in chapter 84 verses 16 – 19. He says:

فَلَا أُقْسِمُ بِالشَّفَقِ ﴿١٦﴾ وَاللَّيْلِ وَمَا وَسَقَ ﴿١٧﴾ وَالْقَمَرِ إِذَا اتَّسَقَ ﴿١٨﴾  
لَتَرْكَبُنَّ طَبَقًا عَن طَبَقٍ ﴿١٩﴾

سورة الإنشقاق الأيات 16 - 19

No I swear by the twilight

and the night and what it envelopes  
and the moon when it is at full,  
you shall surely ride stage after stage

Dr. M. Hassab El Naby refers to science in explaining these two verses, he says:

.... In the Apollo II trip, Armstrong, Aldrin and Collins at 9.32 am, July 16, 1969, were launched on a mission that will be long remembered in history. The vehicle was the mighty Saturn 5 rocket, one of the most awe - inspiring machines ever made. As tall as a 35-story skyscraper, the rocket produced is thrust of about 3800 tons and it carried at its top the Apollo II spaceship, in which the lunar lander and the mother ship were included. A speed of nearly 7 miles per second (2500 miles per hour) has been attained by the spacecraft to escape from the earth's gravitation and to travel a distance of about 240,000 miles to reach the moon. The lunar lander carried Armstrong and Aldrin to the surface of the moon while Collins waited for them in the mother ship in orbit around the moon. In the return trip the lunar lander approached the mother ship... the moon walkers transferred to the command module and all three astronauts headed for home! Such Apollo trips to the moon from stage to stage and from vessel to vessel are hinted at in the Glorious Qur'an

He goes on giving us the different meanings of the Arabic word "طباق". It could mean a stage or a layer of heaven or just a vessel. Actually the word means them all:

This new comment is scientifically accurate because the spacecraft had to ascend through the atmospheric layers, mainly troposphere, ozonosphere, thermosphere and exosphere. In this case the Arabic word (tabag) may be translated as "layer". It may also be translated as vessel, because the astronauts had to ride a vessel after vessel either in the form of the five-stages rockets or in the form of the spaceship which includes the Lunar lander and the mother ship as explained before.

Dr. M. Hassab El Naby says that the trip to the moon is within our reach. But it is impossible for man to travel to most distant "planets of other stars". He goes on explaining that:

...the nearest star (Alpha Centauri) is 4.2 light years i.e. 39.9 million km, indicating that it is impossible for us to reach. Moreover there are many dangers in space such as astroid belt, cosmic rays...and other unknown dangers.

.....

No one knows the safety range in the heavens, yet the Glorious Qur'an points to a certain danger which may, in my point of view, indicate a nuclear reaction between copper and fast protons producing

the antiprotons or antimatter, which in case of collision with matter causes annihilation! (refer to chapter 55 verses 33-35)

يَدْمَعَشَرَ الْجِنِّ وَالْإِنْسِ إِنِ اسْتَطَعْتُمْ أَنْ تَنْفُذُوا مِنْ أَقْطَارِ السَّمَوَاتِ  
وَالْأَرْضِ فَأَنْفُذُوا لَا تَنْفُذُونَ إِلَّا بِسُلْطَانٍ ﴿٣٣﴾ فَبِأَيِّ آيَاتِ رَبِّكُمَا تُكَذِّبَانِ ﴿٣٤﴾  
يُرْسَلُ عَلَيْكُمَا شُوَاظٌ مِّنْ نَّارٍ وَنُحَاسٌ فَلَا تَنْتَصِرَانِ ﴿٣٥﴾

سورة الرحمن الآيات 33 - 35

O tribe of Jinn and of men if you are able to  
pass through the confines of heaven and earths,  
pass through them! You shall not pass through  
except with an authority  
O which of your Lord's bounties will you and you deny?  
Against you shall be loosed.  
A flame of fire, and molten  
brass and you shall not be helped.

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## Chapter V

### • THE SUN AND THE MOON

هُوَ الَّذِي جَعَلَ الشَّمْسُ ضِيَاءً وَالْقَمَرَ نُورًا وَقَدَرَهُ مَنَازِلَ لِتَعْلَمُوا  
عَدَدَ السِّنِينَ وَالْحِسَابَ مَا خَلَقَ اللَّهُ ذَلِكَ إِلَّا بِالْحَقِّ يُفَصِّلُ الْآيَاتِ  
لِقَوْمٍ يَعْلَمُونَ ﴿٥﴾

سورة يونس آية 5

It is He who made the sun radiance  
and the moon a light. (Chapter 10- verse 5)

وَجَعَلْنَا سِرَاجًا وَهَاجًا ﴿١٣﴾

سورة النبا آية 13

And we appointed a blazing lamp.  
(Chapter 78- verse 13)

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وَجَعَلَ الْقَمَرَ فِيهِنَّ نُورًا وَجَعَلَ الشَّمْسُ سِرَاجًا ﴿١٦﴾

سورة نوح آية 16

And set the moon therein for a light  
and the sun for a lamp.  
(Chapter 71- verse 16)

تَبَارَكَ الَّذِي جَعَلَ فِي السَّمَاءِ بُرُوجًا وَجَعَلَ فِيهَا سِرَاجًا وَقَمَرًا مُنِيرًا ﴿٦١﴾

سورة الفرقان آية 61

Blessed be He  
who has set in heaven constellations, and has set  
among them a lamp, and  
an illuminating moon.  
(Chapter 25-verse 61)

The sun is "the only self-luminous body in the entire Solar System. Moonlight results from the reflection of the sunlight back to space by the surface of the moon."<sup>24[24]</sup>

The sun is compared to a lamp because it illuminates and heats the earth. Solar radiation decreases gradually on entering the earth's atmosphere because of "the scattering of light, or the scattering by air particles and other small ones floating in the air, and the absorption by the atomic oxygen in high altitudes and by the ozone gas, which is found at altitudes ranging from 15 to 45 kilometers." 25[25]

But if we go through the earth's atmosphere up to the universal space, we will find it dark in spite of the sun's "appearance in one of the sky's corners." That is to say the universal space is dark while half the earth is illuminated. This beautiful and awe-inspiring image reflects what is pictured in The Holy Qur'an. It pictures the day as if it is snatched from the night. In (Chapter 36 -verses 37- 38) God says:

وَأَيَّةٌ لَهُمُ اللَّيْلُ نَسَلَخُ مِنْهُ النَّهَارَ فَإِذَا هُمْ مُظْلِمُونَ ﴿٣٧﴾

وَالشَّمْسُ تَجْرِي لِمُسْتَقَرٍّ لَهَا ذَلِكَ تَقْدِيرُ الْعَزِيزِ الْعَلِيمِ ﴿٣٨﴾

سورة يس الأيات 37-38

And a sign for them is the night; We strip it of the  
day and lo, they are in darkness.  
And the sun- it runs to a fixed resting -place;  
that is the ordaining of the All- mighty, the All-knowing.

Dr. El- Fandy says, "Originally, space is dark and daytime is nothing but an incidental matter. ... This process does not occur except in the atmosphere of the earth and other similar planets" 26[26] God, in The Holy Qur'an, makes it very clear that darkness is the prevailing phenomenon in the universe which should be blocked out to give way to daylight. This universal fact is pictured in The Holy Qur'an in chapter 17 verse 12

وَجَعَلْنَا اللَّيْلَ وَالنَّهَارَ آيَاتَيْنِ ۖ فَمَحَوْنَا آيَةَ اللَّيْلِ وَجَعَلْنَا آيَةَ النَّهَارِ  
مُبْصِرَةً لِّتَبْتَغُوا فَضْلًا مِّن رَّبِّكُمْ وَلِتَعْلَمُوا عَدَدَ السِّنِينَ وَالْحِسَابَ ۗ

سورة الاسراء آية 12 ﴿١٢﴾

We have appointed the night and the day  
as two signs' then We have blotted out  
the sign of the night, and made the sign  
of the day to see, and that you may seek  
bounty from your Lord, and that you may know  
the number of the years and the reckoning;  
and everything We have distinguished very distinctly.

25[25] "Cosmic Verses in The Qur'an" by Dr. M.J. El-Fandy

26[26] "Cosmic Verses in The Qur'an" by Dr. M.J. El-Fandy

In (chapter 36) verse 40, God informs us that each planet or star swims in its own orbit, and following a very accurate system:

لَا الشَّمْسُ يَنْبَغِي لَهَا أَنْ تُدْرِكَ الْقَمَرَ وَلَا اللَّيْلُ سَابِقُ النَّهَارِ وَكُلٌّ فِي فَلَكٍ

يَسْبَحُونَ ﴿٤٠﴾

سورة يس آية 40

It behoves not the sun to overtake the moon; neither  
does the night outstrip the day,  
each swimming in a sky.

The sun and the other members of the solar system must have an appointed time to cease. Dr. Maurice Bucaille in his book says:

The sun is a star that is roughly 4 1/2 billion years old according to experts in astrophysics. It is possible to distinguish a stage in its evolution, as one can for all the stars. At present, the sun is at an early stage, characterized by the transformation of hydrogen atoms into helium atoms. Theoretically, this present stage should last another 5 1/2 billion years according to calculations that allow a total of 10 billion years for the duration of the primary stage in a star of this kind.

It has already been shown, in the case of these other stars, that this stage gives way to a second period characterized by the completion of the transformation of hydrogen into helium, with the resulting expansion of its external layers and the cooling of the sun. In the final stage, its light is greatly diminished and density considerably increased; this is to be observed in the type of stars known as a "white dwarf."  
27[27]

He goes on adding,

..... the violent implosion of certain stars has been observed so that they become veritable "corpses"

In chapter 31 verse 29 God states this scientific theory in a very simple way:

أَلَمْ تَرَ أَنَّ اللَّهَ يُولِجُ اللَّيْلَ فِي النَّهَارِ وَيُولِجُ النَّهَارَ فِي اللَّيْلِ وَسَخَّرَ

الشَّمْسَ وَالْقَمَرَ كُلٌّ يَجْرِي إِلَىٰ آجَلٍ مُّسَمًّى وَأَنَّ اللَّهَ بِمَا تَعْمَلُونَ خَبِيرٌ

﴿٢٩﴾

27[27] "The Bible, the Qur'an and Science", by Dr. Maurice Bucaille.

Hast thou not seen how that God makes the night to enter into the day  
and makes the day to enter into the night  
and He has subjected the sun and the moon each of them running  
to a stated term,  
and that God is aware of what you do

And in chapter 35 verse (13) God says:

يُولِجُ اللَّيْلَ فِي النَّهَارِ وَيُولِجُ النَّهَارَ فِي اللَّيْلِ وَسَخَّرَ الشَّمْسَ وَالْقَمَرَ كُلًّا  
يَجْرِي لِأَجَلٍ مُّسَمًّى ذَٰلِكُمْ اللَّهُ رَبُّكُمُ لَهُ الْمُلْكُ وَالَّذِينَ تَدْعُونَ  
مِن دُونِهِ مَا يَمْلِكُونَ مِن قِطْمِيرٍ ﴿١٣﴾

He makes the night to enter into the day  
and makes the day to enter into the night  
and He has subjected the sun and the moon , each of them running  
to a stated term.

That is God your Lord; to Him belongs the Kingdom;  
and these you call upon , apart from Him, possess  
Not so much as the skin of a date – stone.

To the infinity of the universe, God says:

﴿٧٥﴾ وَإِنَّهُ لَقَسَمٌ لَّو تَعْلَمُونَ عَظِيمٌ ﴿٧٦﴾  
﴿٧٧﴾ إِنَّهُ لَقُرْءَانٌ كَرِيمٌ ﴿٧٨﴾

سورة الواقعة الآيات 75 – 78

No! I swear by the falling of stars <sup>28[28]</sup>  
(and this is indeed a mighty oath, did  
you but know it)  
it is surely a noble Qur'an

28[28] The translation is totally wrong (مواقع النجوم) means location, position or sites of stars.



in a hidden book  
(chapter 56 verses 75-78)

In order to know the power of this oath we have to know something about the immensely vast universe with its galaxies and stars. Dr. Mahgary<sup>29[29]</sup> says that there are billions of galaxies and in each galaxy billions of stars. In our galaxy there are 500 billion stars.

All these billions of stars move in a fixed system and in an assigned orbit around the center of the galaxy. They move with different speeds, which increase as they approach the center of the galaxy. Dr. El Mahgary adds that in spite of this great number of stars it is very rare that a star collides with another.

To what extend is this oath a great one, one must refer also to the unimaginable distances between galaxies. Dr. M. Hassab El Naby, in his book "The Glorious Qur'an and Modern Science", says that "The diameter of 'our' galaxy may span 100,000 light years." If this is the case with one galaxy, so what could be the distance of the whole universe, when we know that it includes billions of galaxies!!!

He says in the same book that "the 200 – inch mirror telescope at Mount Palomar can now photograph countless galaxies (islands of stars) lying beyond a distance of 300 million light years!"

No wonder, therefore that God Almighty swears by the location or the sites of stars, that The Holy Qur'an is but His Noble Book.

The order of the universe is always in flawless motion. The birth and death of stars occupy quite a large part in The Holy Qur'an. God swears by the falling star, in order to prove that prophet Mohammed "is not astray, neither errs." Now in the (21<sup>st</sup> we, have come to know the extent of this oath and how mighty it is.

God also swears by the falling of stars that prophet Mohammed did not err..

وَالنَّجْمِ إِذَا هَوَىٰ ﴿١﴾ مَا ضَلَّ صَاحِبُكُمْ وَمَا غَوَىٰ ﴿٢﴾ وَمَا يَنْطِقُ  
عَنِ الْمَوَىٰ ﴿٣﴾ إِنَّ هُوَ إِلَّا وَحْيٌ يُوحَىٰ ﴿٤﴾ عَلَّمَهُ شَدِيدُ الْقُوَىٰ ﴿٥﴾

سورة النجم الآيات 1 – 5

By the star when it plunges,  
your comrade is not astray, neither errs,  
nor speaks he out of caprice.  
This is naught but a revelation revealed,  
taught him by one terrible in power,  
very strong; (chapter 53 – 1 –5)

29[29] "Qur'anic Verses in the Light of Science" by Dr. Yehya Said El Mahgary.

He also swears by the heaven and the “piercing star”, and when God swears by something it should be as great and as important as the oath itself:

وَالسَّمَاءِ وَالطَّارِقِ ﴿١﴾ وَمَا أَدْرَاكَ مَا الطَّارِقُ ﴿٢﴾ النَّجْمُ الثَّاقِبُ ﴿٣﴾  
إِنْ كُلُّ نَفْسٍ لَّمَّا عَلَيْهَا حَافِظٌ ﴿٤﴾

سورة الطارق الآيات 1-4

By heaven and the night-star!<sup>30[30]</sup>  
And what shall teach thee what is the night-star?  
The piercing star!  
Over every soul there is a watcher.  
Chapter 86 (1-4)

We have to deal with these two verses together as they denote the same natural phenomenon i.e. the death of stars.

The primary elements in a star like our sun, or even bigger are hydrogen and helium. When the hydrogen expires it indicates that the big star is passing from the stage of youth to old age. In order to die, this big star passes through different stages: A Red Giant, a White Dwarf, a Neutron star, then in the final stage it becomes a Black Hole in the dark sky.

The falling star is but a Red giant that collapses on itself. Dr. M. H. El Naby in his book “The Glorious Qur’an and Modern Science”, says that the red giant stage of our sun will appear as God describes in chapter 55 verses 36 – 37.

فَبِأَيِّ آيَاتِ رَبِّكُمَا تُكَذِّبَانِ ﴿٣٦﴾ فَإِذَا أَنْشَقَّتِ السَّمَاءُ فَكَانَتْ وَرْدَةً كَالدِّهَانِ ﴿٣٧﴾

O which of your Lord’s bounties will you and you deny?  
And when heaven is split asunder,  
and turns crimson like red leather

He goes on, to say:

Here the red colour may point to the red giant’s hot surface which will raise the temperature of the earth to about 4000 C causing seas to boil, explode and evaporate. Moreover the water vapour may be analyzed into hydrogen and oxygen, causing fire due to rapid ignition of hydrogen-oxygen mixture! This may explain the following verses:

إِذَا السَّمَاءُ أَنْفَطَرَتْ ﴿١﴾ وَإِذَا الْكُوَاكِبُ أُنثَرَتْ ﴿٢﴾ وَإِذَا الْبِحَارُ فُجِّرَتْ ﴿٣﴾

سورة الإنفطار الآيات 1-3

When heaven is split open,  
when the stars are scattered,

<sup>30[30]</sup>الطارق means knocking or beating – pulsating

when the seas swarm over, (exploded)  
chapter 82 (verses 1-3)

وَإِذَا الْبِحَارُ سُجِّرَتْ ﴿٦﴾

when the seas shall be set boiling  
Chapter 81 verse 6

A Red Giant is a large Red Star at least ten times the diameters of the sun. Stars like the sun when they grow old swell up into Red giants.

When the nuclear reaction in the center of the star stops, with the formation of iron, the source of energy disappears. Then the balance of the matter inside the star becomes imbalanced and the star contracts and shrinks under the power of its gravity, and its diameter becomes a few thousand kilometers, whereas it previously measured billions of kilometers. Consequently its density increases greatly and it dwindles and becomes a White Dwarf.

During the quick shrinking process, the White Star's power of movement is transformed into energy. So, its temperature increases and becomes one hundred thousand (absolute degree). The star starts to radiate white faint beams until its energy and its temperature drop gradually. Then it contracts greatly until it becomes a Neutron star whose diameter does not exceed twenty kilometers. Its density is unbelievably great to the extent that a neutron ball as big as a football weights fifty thousand billion tons.

Dr. El. Mahgary goes on to say that the first Neutron star was discovered in 1968, when an American student was able to register radio signals from outer space, by a radio telescope, which was capable of registering radio signals from huge distances. In the seventies astronomers were able to register several stars that send regular radio signals in the form of "Peep, Peep, Peep. " They called them "Pulsars", but later discovered that they were but Neutron Stars. Pulsars spin rapidly and every time they spin, give out rapid flashes of radiation like lighthouse beams. Do you not agree with me that these "pulsars" beat the vacuum with their "Peep, Peep, Peep"?

Neutron stars also dwindle and contract into Black Holes in the dark sky. Its gravity becomes immensely great to the extent that nothing can escape from it not even light.

Dr.El. Mahgary compares finding a Black Hole in the dark sky to trying to find a black cat in a pitch black room. No one can find it unless it meows.

He goes on to say, that the first thread that led scientists to find Black Holes were screams for help which energy releases on approaching a Black Hole. When energy comes closer to a Black Hole its temperature increases greatly and its cries reach us in the form of X-rays. We can see that Black Holes pierce the vacuum and our atmosphere with X-rays. The second thread that leads us to Black Holes is their immense gravity. Naturally they affect, nearby bodies. So astronomers registered several stars rotating around something which could not be seen and which they could identify as Black Holes.

Dr. Mansour Hassab El Naby in his book "The Glorious Qur'an and Modern Science" says that Black Holes are "a case of complete gravitational collapse".

God swears in chapter 81 verse 15 by the running sweepers:

سورة التكوير الآية 15

No! I swear by the slinkers<sup>31[31]</sup>  
The runners, the sinkers<sup>32[32]</sup>

God here compares Black Holes to the “running sweepers” i.e. they sweep the space within their gravitational range. ”They are actually cosmic vacuum cleaners” as called in astrophysics.”

According to The Holy Qur’an and science the inhabitants of the earth will witness only the first stage in the death of our sun i.e. the Red Giant stage. This is because it will expand, as mentioned before, that it will reach our moon and devour it. Hence its extremely hot temperature will reach our earth making any kind of life impossible.

The cracking of the moon is scientifically expected "in the far future. The tidal forces between the earth and the moon play an important role in the earth-moon system. If the moon approaches the earth, under certain expected conditions, then the difference in gravitation on both sides of the moon can be sufficient to cleave or crack it." <sup>33[33]</sup>

أَقْتَرَبَتِ السَّاعَةُ وَأَنْشَقَّ الْقَمَرُ ﴿١﴾

s.com وَإِنْ يَرَوْا آيَةً يُعْرِضُوا وَيَقُولُوا سِحْرٌ مُّسْتَمِرٌّ ﴿٢﴾ quer

سورة القمر آية 1، 2

In chapter 54 verse 1&2 God says:

The Hour has drawn nigh: the moon is split  
yet if they see a sign they turn away, and they say  
‘A continuous sorcery!’

The sun is the central body in the solar system and it controls the motion of all the bodies in the system. The solar system maintains its common features as long as the sun "remains in equilibrium and does not explode." <sup>34[34]</sup>

Dr. El - Fandy goes on adding:

Astronomically speaking, the earth and the solar system are not eternal. The whole matter will come to an end when the sun suddenly expands or explodes such that its outer atmosphere ( \* 6,000 degrees absolute) fills the whole space extending up to the orbit of the earth and its moon.

<sup>31[31]</sup> Hidden or concealed.

<sup>32[32]</sup> the correct translation in this verse is “the running sweepers” the verb “يكنس” means to sweep

<sup>33[33]</sup> “Islam and Science”, book VI

<sup>34[34]</sup> “Islam and Science”, book VI

Such phenomenon is observed taking place in heavens. <sup>35[35]</sup>

When the sun catches the moon, the earth's temperature will exceed 100° C, a matter that makes life on earth impossible. In chapter 75 verses 6-10 God informs us about doomsday. He says:

يَسْأَلُ أَيَّانَ يَوْمَ الْقِيَامَةِ ﴿٦﴾ فَإِذَا بَرِقَ الْبَصَرُ ﴿٧﴾ وَخَسَفَ الْقَمَرُ ﴿٨﴾  
وَجُمِعَ الشَّمْسُ وَالْقَمَرُ ﴿٩﴾ يَقُولُ الْإِنْسَانُ يَوْمَئِذٍ أَيَّن الْمَقَرِّ ﴿١٠﴾

سورة القيامة الآيات 6 – 10

Asking, "when shall be the Day of resurrection?"

But when the sight is dazed

and the moon is eclipsed,

and the sun and the moon are brought together,

upon that day man shall say, "whither to flee?"

No indeed: not a refuge!

Dr. Mansour Hassab El Naby in his book “The Glorious Qur’an and Modern Science”, says apart from the sun the moon undoubtedly influences the earth:

As water ebbs and flows in the shallow seas, it drags against the sea floor. The ocean bulges lying on either side of the Earth act as a pair of huge brake shoes on the rotating solid planet beneath.

He goes on to say that this effect is so slow to the extent that the day on earth 4500 million years ago was only four hours!! But now due to the tidal effect, it has become 24 hours.

On the other hand the moon itself will be greatly affected by the earth’s gravitation. He says:

The tidal force plays an important part in the Earth – Moon system. As the Earth rotates, friction between the seabeds and the water in them not only slows it down, but also pulls the tidal bulges slightly ahead of the Earth-Moon line. As a result, the Moon feels a slight extra tug in a forward direction from the gravitation of the displaced tidal bulges, which results in a gradual increase in its orbit, it is very slowly spiraling away from us! The rate is again small,... Thus the energy lost by the rotating Earth is transferred to the moon’s orbital energy. The day and the lunar month are thereby lengthening at different rates and the state of affairs in the remote past and in the remote future has been recently calculated giving information that the moon will approach the Earth in

35[35] “Islam and Science”, book VI

\* N.B. Inside the sun the temperature exceeds 20 million degrees!!

the future so that the difference of gravitation on both sides of the moon will be sufficient to cleve it asunder!

It is true that according to scientific calculation the cleavage of the moon will take place in the remote future yet, "other factors, such as a probable change in the universal gravitation, may reinforce and accelerate its occurrence". This is a sign of the approach of "The HOUR" "and a pre-incident of the total disruption of the whole Universe!"

Dr. M. Hassab El Naby in his book "The Universe, and Scientific Miracles in the Qur'an" says that practical scientific news is not encouraging. Scientists nowadays examine a riddle called neutrino. This neutrino implies that the sun has stopped its nuclear reaction. As a result neutrino in the expected quantity, which results from nuclear fusion inside the sun, does not reach us. The writer wonders whether the sun has stopped its nuclear reaction as a step towards stellar evolution before becoming a Red Giant? Or, is the sun passing – at the present time – through a very dusty area which when colliding with the sun's surface raises its temperature? That could be why it has stopped, temporarily its nuclear reaction. No one knows the secret of that riddle. What unravels this riddle is what he writes in his book "The Glorious Qur'an and Modern Science".

Some astronomers such as John Brandt in his book "New Horizons in Astronomy " (1972) says that humanity must prepare enough space-ships before the Red Giant stage of the sun is reached, to enable all the people to escape from the earth to another planet that is far away from the sun!!

What modern scientists here have acknowledged reminds me of the verse in The Holy Qur'an

Asking "when shall be the Day of Resurrection?"

But when the sight is dazed  
and the moon is eclipsed,

and the sun and the moon are brought together,  
upon that day man shall say," whether to flee"?

No indeed not a refuge!

## Chapter VI

### • THE SHAPE OF THE EARTH

أَوَلَمْ يَرَوْا أَنَّا نَأْتِي الْأَرْضَ نَنْقُصُهَا مِنْ أَطْرَافِهَا وَاللَّهُ يَحْكُمُ لَا مُعَقِّبَ  
لِحُكْمِهِ وَهُوَ سَرِيعُ الْحِسَابِ ﴿٤١﴾

سورة الرعد آية 41

Have they not seen how we come to the land  
diminishing it in its extremities? God  
judges; none repels His judgment; He is swift  
at the reckoning. <sup>36[36]</sup>

God also says:

وَالْأَرْضَ بَعْدَ ذَلِكَ دَحَاهَا ﴿٣٠﴾

سورة النازعات آية 30

"And the earth-after that He spread it out"

But here is a more accurate translation:

"And the earth moreover has He made almost spherical." <sup>37[37]</sup>

The word "dahaha" in the second verse means in Arabic: shaped like an egg, which is the true shape of the earth.

These verses state that the earth was gradually diminished along its axes, a highly scientific fact which scientific researches have proved it to be true; we notice that The Holy Qur'an has stated this fact in a simple and a straightforward way; while scientists have acquired this knowledge through strenuous efforts, and the most complicated theories of mathematics, physics and astronomy.

If we want a sign that the earth revolves around its axis, we may read the following verse:

وَتَرَى الْجِبَالَ تَحْسَبُهَا جَامِدَةً وَهِيَ تَمُرُّ مَرَّ السَّحَابِ صُنَّعَ اللَّهِ الَّذِي  
أَتَقَّنَ كُلَّ شَيْءٍ إِنَّهُ خَبِيرٌ بِمَا تَفْعَلُونَ ﴿٨٨﴾

سورة النمل آية 88

and thou shalt see the mountains, that thou supposed fixed,  
passing by like clouds- God's handiwork, who has created

<sup>36[36]</sup> Chapter 13 verse 41

<sup>37[37]</sup> chapter 79 verse 30

everything very well. He is aware of the things you do. <sup>38[38]</sup>

This verse states clearly that the earth is almost round and rotates around its axis. We can see the movement of the clouds, but we cannot see the movement of the mountains. Strangely enough, God compares what appeals to the senses to what is hidden from our limited senses.

But, with the progress of science which God has advocated all through The Holy Qur'an, and which God has subjected to serve His great Book and which help in explaining the cosmic verses in it we come to know that both move in the same way. That is to say, the mountains as part of the earth move with it, and the clouds move around the earth simply because they are surrounded, as the earth is, with the atmospheric cover that surrounds the earth. This atmospheric cover, God's great gift to the earth, hinders the clouds, by God's mercy, from fleeing into the outer space and dissolving in this limitless space.

The following verses are evidence that the earth is round and revolves around its axis. They show that there is always a day and a night prevailing over the earth at the same time, which implies this scientific fact concerning the movement and the shape of the earth:

إِنَّمَا مَثَلُ الْحَيَاةِ الدُّنْيَا كَمَاءٍ أَنْزَلْنَاهُ مِنَ السَّمَاءِ فَاخْتَلَطَ بِهِ نَبَاتُ  
الْأَرْضِ مِمَّا يَأْكُلُ النَّاسُ وَالْأَنْعَامُ حَتَّىٰ إِذَا أَخَذَتِ الْأَرْضُ زُخْرُفَهَا  
وَأَزْيِنَتْ وَظَنَّ أَهْلُهَا أَنَّهُمْ قَادِرُونَ عَلَيْهَا أَتَيْنَاهَا أُمْرًا لَيْلًا أَوْ نَهَارًا  
فَجَعَلْنَاهَا حَصِيدًا كَأَن لَّمْ تَغْنَبِ بِالْأَمْسِ ۚ كَذَٰلِكَ نُفَصِّلُ الْآيَاتِ  
لِقَوْمٍ يَتَفَكَّرُونَ ﴿٢٤﴾

سورة يونس آية 24

Our command comes upon it  
by night or day." <sup>39[39]</sup>

خَلَقَ السَّمَوَاتِ وَالْأَرْضَ بِالْحَقِّ يُكَوِّرُ اللَّيْلَ عَلَى النَّهَارِ وَيُكَوِّرُ النَّهَارَ  
عَلَى اللَّيْلِ ۗ وَسَخَّرَ الشَّمْسَ وَالْقَمَرَ ۗ كُلٌّ يَجْرِي لِأَجَلٍ مُّسَمًّى ۗ ۗ أَلَا هُوَ الْعَزِيزُ  
الْغَفَّورُ ﴿٥﴾

سورة الزمر آية 5

<sup>38[38]</sup> chapter 27 verse 88

<sup>39[39]</sup> chapter 10 verse 24



wrapping the night about the day, and  
wrapping the day about the night <sup>40[40]</sup>

تَوَلَّجَ اللَّيْلَ فِي النَّهَارِ وَتَوَلَّجَ النَّهَارَ فِي اللَّيْلِ وَتَخْرُجُ الْحَيِّ مِنَ الْمَيِّتِ  
وَتَخْرُجُ الْمَيِّتِ مِنَ الْحَيِّ وَتَرزُقُ مَنْ تَشَاءُ بِغَيْرِ حِسَابٍ ﴿٢٧﴾

سورة آل عمران آية 27

Thou makes the night enter into the day  
and thou makes the day to enter into the night, <sup>41[41]</sup>

لَا الشَّمْسُ يَنْبَغِي لَهَا أَنْ تُدْرِكَ الْقَمَرَ وَلَا اللَّيْلُ سَابِقُ النَّهَارِ وَكُلٌّ فِي فَلَكٍ  
يَسْبَحُونَ ﴿٤٠﴾

سورة يس آية 40

It behoves not the sun to overtake the moon, neither  
does the night outstrip the day?  
each swimming in a sky <sup>42[42]</sup>

خَلَقَ السَّمَوَاتِ وَالْأَرْضَ بِالْحَقِّ يُكَوِّرُ اللَّيْلَ عَلَى النَّهَارِ وَيُكَوِّرُ النَّهَارَ  
عَلَى اللَّيْلِ وَسَخَّرَ الشَّمْسَ وَالْقَمَرَ كُلٌّ يَجْرِي لِأَجَلٍ مُّسَمًّى ۗ أَلَا هُوَ الْعَزِيزُ

الْعَفْوُ ﴿٥﴾

سورة الزمر آية 5

He created the heavens and the earth in truth,  
wrapping the night about the day, and  
wrapping the day about the night:  
and He has subjected the sun and the moon,  
each of them running

40[40] chapter 39 verse 5

41[41] chapter 3 verse 27

42[42] chapter 36 verse 40

to a stated term  
is not He the All mighty, the All-forgiving? <sup>43[43]</sup>

The word "wrap" or "surround", dose not give the true meaning in Arabic, which is "يكور" for it is a derivative of the word "كرة" which means "ball". The word "ball" implies that the world is round, or the day and night would not have wrapped about each other. This image indicates that when the night prevails over one half of the earth, the day prevails over the other half. A fact, which was only discovered after the discovery of America; and after the progress of science and Man's ascension to outer space where he could see the earth half illuminated with daytime and the second half is dark, exactly as God has informed us more than 1400 years ago.

وَالْأَرْضَ مَدَدْنَاهَا وَأَلْقَيْنَا فِيهَا رَوَاسِيَ وَأَنْبَتْنَا فِيهَا مِنْ كُلِّ شَيْءٍ مَّوْزُونٍ



سورة الحجر آية 19

And the Earth- We stretched it forth, and cast  
on it firm mountains,  
and We caused to grow therein of every thing  
justly weighed <sup>44[44]</sup>

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Sheikh Shaarawy, in his book "The Materialistic Proofs of God", explains this verse in a very witty way. He says that God does not denote a particular land, but land in general. This means that wherever you go, any place in the world, you find the earth stretched out, and this could not have happened if the earth was not really round. If the earth were rectangular or of any other geometrical shape you would have reached its edge; while the round shape is the only shape which has no edge, therefore whenever you go you find it stretched. This is the miraculous nature of the Holy Qur'an, it gives you an expression in one word suits the appearance of things and at the same time, it indicates a scientific fact.

أَفَلَا يَنْظُرُونَ إِلَى الْإِبِلِ كَيْفَ خُلِقَتْ ﴿١٧﴾ وَإِلَى السَّمَاءِ كَيْفَ رُفِعَتْ ﴿١٨﴾

وَإِلَى الْجِبَالِ كَيْفَ نُصِبَتْ ﴿١٩﴾ وَإِلَى الْأَرْضِ كَيْفَ سُطِحَتْ ﴿٢٠﴾

سورة الغاشية الآيات 17-20

What, do they not consider how the camel was created,  
how heaven was lifted up,

43[43] chapter 29 verse 5

44[44] chapter 15 verse 19

how the mountains were hoisted  
how the earth was outstretched? <sup>45[45]</sup>

God the Almighty, in this verse, and others, attracts our attention to the different signs of His power in His creation. God, in this verse, tells us is it not amazing that the earth is outstretched! We could not fully understand what is amazing about this fact and the implication of it until the age of science, when we came to know that the earth was round. Is it not amazing to find that this rounded earth is outstretched for our benefit! That is to say, what we have taken for granted is but one of His great signs.

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## Chapter VII

- **Mountains**

...mountains are to be scientifically considered as weights which have to keep the balance of the crust of the earth and, then, keep it firm without being crushed or destroyed through centuries, during which equilibrium remained steady despite the high pressures which fell down on the interior of the earth and the sweeping slow currents which carried weights <sup>46[46]</sup>

We can trace many verses in The Holy Qur'an that likens firm mountains to pegs that keep the earth's balance. Here are some of them:

وَأَلْقَى فِي الْأَرْضِ رَوَاسِيَ أَنْ تَمِيدَ بِكُمْ وَأَنْهَارًا وَسُبُلًا لَعَلَّكُمْ تَهْتَدُونَ



سورة النحل آية 15

And He cast on the earth, firm mountains, lest it  
shake with you,

and rivers and ways, so haply you will be guided, <sup>47[47]</sup>

وَجَعَلْنَا فِي الْأَرْضِ رَوَاسِيَ أَنْ تَمِيدَ بِهِمْ وَجَعَلْنَا فِيهَا فِجَاجًا

سُبُلًا لَعَلَّهُمْ يَهْتَدُونَ ﴿٣١﴾

سورة الأنبياء آية 31

And We set the earth firm mountains  
lest it should shake with them ... <sup>48[48]</sup>

خَلَقَ السَّمَوَاتِ بِغَيْرِ عَمَدٍ تَرَوْنَهَا وَأَلْقَى فِي الْأَرْضِ رَوَاسِيَ أَنْ تَمِيدَ  
بِكُمْ وَبَثَّ فِيهَا مِنْ كُلِّ دَابَّةٍ وَأَنْزَلْنَا مِنَ السَّمَاءِ مَاءً فَأَنْبَتْنَا فِيهَا مِنْ كُلِّ

زَوْجٍ كَرِيمٍ ﴿١٠﴾

46[46] "On Cosmic Verses in the Qur'an", by Dr.M.J. El Fandy

47[47] Chapter 16 verse 15

48[48] Chapter 21 verse 31

سورة لقمان آية 10

He created the heavens without pillars  
you can see, and He cast on the earth  
firm mountains, lest it shakes with you,<sup>49[49]</sup>

وَجَعَلْنَا فِيهَا رَوَاسِيَ شَامِخَاتٍ وَأَسْقَيْنَكُم مَّاءً فُرَاتًا ﴿٢٧﴾

سورة المرسلات آية 27

Set We not therein soaring mountains?  
Sated you with sweetest water?<sup>50[50]</sup>

أَلَمْ نَجْعَلِ الْأَرْضَ مِهْدًا ﴿٦﴾ وَالْجِبَالَ أَوْتَادًا ﴿٧﴾

سورة النبا الآيات 6-7

Have we not made the earth as a cradle  
and mountains as pegs?<sup>51[51]</sup>

The comparison of firm soaring mountains to pegs that keep the balance of the earth lest it shakes with us, is a highly scientific fact which is mentioned in The Holy Qur'an more than 1400 years ago. It could not have been mentioned, so long ago, except by the Mighty Creator of the earth, the universe and all living creatures.

Dr. El-Fandy, in "Cosmic Verses in The Qur'an", comments on this scientific fact saying:

After the advancement made by civilization and after geology has become a factual subject, it has been discovered that without mountains the solid crust of the earth would have been generally unstable as a result of the continuity of disequilibrium between the molten interior of the earth and the high pressures fallen on its solid crust and the denudation factor it is exposed to.

وَلَا تَمْشِ فِي الْأَرْضِ مَرَحًا إِنَّكَ لَن تَخْرِقَ الْأَرْضَ وَلَن تَبْلُغَ الْجِبَالَ طُولًا ﴿٣٧﴾

سورة الإسراء آية 37

And walk not in the earth exultantly; certainly  
thou wilt never tear the earth open, nor attain  
the mountains in height<sup>52[52]</sup>

49[49] chapter 31 verse 10

50[50] chapter 77 verse 27

51[51] chapter 78 verse 6-7

52[52] chapter 17 verse 37

The Literary meaning of this verse is: do not walk on earth proudly for you shall never pierce the earth or your length will never be as high as roaring mountains two impossibilities. God wants to say to man do not be proud, but walk on earth with your real length.

But Dr. El-Fandy, in his book "Cosmic Verses in the Qur'an" provides us with a new scientific explanation. He says:

Although the earth is a small planet and although it became possible for man of our age to go round it in one day or part of a day, the fact still remains that it is impossible for anyone to rend it. If this is the case why is it so difficult? It is difficult because of the hard crust beneath which exist-thermo – energies and the very high pressures found in the interior of the earth which make the question of rending it a matter of concrete impossibility.

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## Chapter VIII

### • THE HISTORY OF THE EARTH

قُلْ سِيرُوا فِي الْأَرْضِ فَانظُرُوا كَيْفَ بَدَأَ الْخَلْقَ ثُمَّ اللَّهُ يُنشِئُ النَّشْأَةَ  
الْآخِرَةَ إِنَّ اللَّهَ عَلَىٰ كُلِّ شَيْءٍ قَدِيرٌ ﴿٢٠﴾

سورة العنكبوت آية 20

Say: " Journey in the land, then behold how  
He originated creation....<sup>53[53]</sup>

Here is a clear order from God to study the crust of the earth and collect fossils because "... evidence of things throughout the ages is recorded on the rocks of these ages in the form of fossils or buried things that can be carefully studied and traced back."<sup>54[54]</sup> That is to say, we can read on the layers of its crust the history of its creation.

By the end of the 18th, century the famous geologist, James Hutton said the earth's history is written inside the layers of its crust. Dr. El- Fandy goes on saying:

It is the duty of the geologist to travel through the earth here and there in order to collect the so-called fossils- remainders of the creatures which lived on earth in the past- and then try to arrange them in the order which enables him to follow (or read) their history.<sup>55[55]</sup>

It is a well-known fact that the distribution of land and oceans has completely changed due to the different deluges that had taken place in the past. Hence some segments of animals; plants and humans could be traced in the different layers of the earth's crust. These layers could be likened to pages in a book on which information is written about the history of the creation of the earth.

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53[53] Chapter 29 verse 20

54[54] "Islam and Science "Book I, Dr. M.G.El-Fandy.

55[55] "Islam and Science "Book VI, Dr. M.G.El-Fandy.

## Chapter IX

### • METEOROLOGY

اللَّهُ الَّذِي يُرْسِلُ الرِّيْحَ فَتُثِيرُ سَحَابًا فَيَبْسُطُهُ فِي  
السَّمَاءِ كَيْفَ يَشَاءُ وَيَجْعَلُهُ كَسَفًا فَتَرَى الْوَدْقَ يَخْرُجُ  
مِنْ خَلِيلِهِ ۗ فَإِذَا أَصَابَ بِهِ مَن يَشَاءُ مِنْ عِبَادِهِ إِذَا هُمْ

يَسْتَبْشِرُونَ ﴿٤٨﴾

سورة الروم آية 48

God is He that looses the winds, that stir up clouds,  
and He spreads them in heaven how He will, and shatters them;  
then thou seest the rain issuing out of midst of them <sup>56[56]</sup>

Dr. El-Fandy comments on this verse saying that:

".... stratus clouds -form by a moist air current which ascends  
gradually into a single layer or stratum in the atmosphere to form a  
single sheet - or separate sheets –within the stratum and hence the name  
stratus clouds." <sup>57[57]</sup>

The Greatest Scientist par excellence differentiates between "stratus clouds" and  
"cumulus clouds". We have seen how He describes "stratus clouds", and the following  
example denotes what we call "cumulus clouds". He says:

أَلَمْ تَرَ أَنَّ اللَّهَ يُزْجِي سَحَابًا ثُمَّ يُؤَلِّفُ بَيْنَهُمْ ثُمَّ يَجْعَلُهُ رُكَامًا فَتَرَى  
الْوَدْقَ يَخْرُجُ مِنْ خَلِيلِهِ ۗ وَيُنزِلُ مِنَ السَّمَاءِ مِنْ جِبَالٍ فِيهَا مِنْ بَرَدٍ  
فَيُصِيبُ بِهِ مَن يَشَاءُ وَيَصْرِفُهُ عَن مَّن يَشَاءُ يَكَادُ سَنَا بَرْقِهِ يَذْهَبُ

بِالْأَبْصَارِ ﴿٤٣﴾

سورة النور آية 43

Hast thou not seen how God drives the clouds then composes them  
then converts them into a mass,  
then thou seest the rain issuing out of the midst of them?  
And He sends down out of heaven mountains, wherein is hail,  
so that He smites whom He will with it , and turns it aside

56[56] Chapter 30verse 48

57[57] "Islam and Science", Book VII, by Prof. Dr. M.G.El-Fandy.



from whom He will;  
wellnigh the gleam of His lightning snatches away the sight <sup>58[58]</sup>  
Dr. El-Fandy, in the same book comments on the formation of "cumulus" clouds saying:

A cumulus cloud is formed by the appearance in the sky of several small cells of clouds. Sooner or later, every two or more cells combine together to form the growing cumulus, which develop and accumulate vertically to great heights (10-15) kilometers. Hence the name cumulus clouds.

These two verses precede science with more than 1400 years, for they differentiate between the formation of the two types of clouds. Dr. El-Fandy, in the same book, comments on this scientific fact saying:

According to cloud physics- or even by direct photography- it has been made clear that the mode of formation and development of one type differs from that of the other type.

After this short exposition, one would ask who had informed prophet Mohammed- may God's prayers and peace be upon him -so long ago about an ultra modern scientific fact about the formation of clouds? It could only have been said by the Creator of these clouds, as well as, of everything else in the whole universe. Again, who had told him that cumulus clouds are like huge mountains that are spread vertically, while stratus clouds are spread horizontally? Again, who had told Prophet Mohammed that hail is formed inside cumulus clouds!!!

وَأَرْسَلْنَا الرِّيْحَ لَوَاقِحَ فَأَنْزَلْنَا مِنَ السَّمَاءِ مَاءً فَأَسْقَيْنَاكُمُوهُ  
وَمَا أَنْتُمْ لَهُ بِخَازِنِينَ ﴿٢٢﴾

سورة الحجر آية 22

And We loose the winds fertilizing,  
and We send down out of heaven water,  
then We give it to you to drink, and  
you are not its treasures..... <sup>59[59]</sup>

Ancient people knew that winds fertilize plant, but who had ever dreamt of winds fertilizing the clouds!! But now we come to know that it is a scientific fact:

In order that rain might fall from the nimbus clouds,  
winds must continue to supply (or seed or even fertilize) the clouds  
with:

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58[58] Chapter 24 verse 43

59[59] Chapter 15 verse 22

1) Water - vapour necessary for condensation and 2) nuclei of condensation which have affinity to water, or absorb it. On these nuclei rain drops or ice crystals develop according to the prevailing temperature.<sup>60[60]</sup>

What is really astonishing is that The Holy Qur'an always connects rainfall with sending winds. Dr. El-Fendy, says the winds are:

...the basic factor if not the first factor which stirs clouds, seeds them with nuclei of condensation, and accumulate them in the sky to rain.<sup>61[61]</sup>

If anyone had said that the wind carries the clouds that are charged with water vapour, people would have said that he was mad. But this scientific fact is written in the Holy Qur'an 14 Centuries ago. We read in the Holy Qur'an, beside the previous verses, what means:

وَاللَّهُ الَّذِي أَرْسَلَ الرِّيحَ فَتُثِيرُ سَحَابًا فَسُقْنَاهُ إِلَى  
بَلَدٍ مَّيِّتٍ فَأَحْيَيْنَا بِهِ الْأَرْضَ بَعْدَ مَوْتِهَا كَذَلِكَ النُّشُورُ ﴿٩﴾

سورة فاطر آية 9

God is He that looses the winds, that stir up clouds.<sup>62[62]</sup>

وَهُوَ الَّذِي يُرْسِلُ الرِّيحَ بُشْرًا بَيْنَ يَدَيْ رَحْمَتِهِ ۗ حَتَّىٰ إِذَا  
أَقْلَّتْ سَحَابًا ثِقَالًا سُقْنَاهُ لِبَلَدٍ مَّيِّتٍ فَأَنْزَلْنَا بِهِ الْمَاءَ فَأَخْرَجْنَا بِهِ مِنْ  
كُلِّ الثَّمَرَاتِ كَذَلِكَ نُخْرِجُ الْمَوْتَى لَعَلَّكُمْ تَذَكَّرُونَ ﴿٥٧﴾

سورة الأعراف آية 57

It is He who looses the winds, bearing good tidings  
before his mercy,  
till, when they are charged with heavy clouds....<sup>63[63]</sup>

إِنَّ فِي خَلْقِ السَّمَوَاتِ وَالْأَرْضِ وَاخْتِلَافِ اللَّيْلِ وَالنَّهَارِ  
وَالْمُلُوكِ الَّتِي تَجْرِي فِي الْبَحْرِ بِمَا يَنْفَعُ النَّاسَ وَمَا أَنْزَلَ  
اللَّهُ مِنَ السَّمَاءِ مِنْ مَاءٍ فَأَحْيَا بِهِ الْأَرْضَ بَعْدَ مَوْتِهَا وَبَثَّ

60[60] "Islam and Science", book V, by Prof. Dr. M. G. El-Fandy.

61[61] "On Cosmic Verses in the Qur'an" by Dr. M. J. El-Fandy.

62[62] Chapter 35 verse 9

63[63] Chapter 7 verse 57

بَيْنَ السَّمَاءِ وَالْأَرْضِ لَأَيِّتٍ لِّقَوْمٍ يَعْقِلُونَ ﴿١٦٤﴾

Surely in the creation of the heavens and the earth  
and the alteration of night and day  
and the ship that runs in the sea with profit  
to men, and the water God sends down from heaven  
therewith reviving the earth after it is dead  
and His scattering abroad in it all manner of  
crawling thing, and the turning about of the winds  
and the clouds compelled between heaven and earth  
surely there are signs for a people having understanding.<sup>64[64]</sup>

To explain all this scientifically, Dr. El Fandy says:

.... It is established now that rainfall is accompanied by the process of the rise of the air upwards by convergence or convection or similar factors. Later, air gets cold due to expansion... when air expands, it occupies greater volumes as a result of the low pressure, which takes place in the higher strata of the atmosphere. its temperature drops automatically at the expense of the energy of its particles, and vice versa. When air gets cold, its ability to carry water vapour drops too. The continuation of this process, i.e. the continuous climbing up to the higher strata of the atmosphere and self-refrigeration, makes it too feeble to carry water vapour.<sup>65[65]</sup>

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64[64] chapter 2 verse 164

65[65] "On cosmic verses in the Qur'an " by Dr. M.J. El Fandy

## Chapter X

### • Fresh Water on Earth

It is a well known fact that about four fifth of the earth's surface is covered with water, a palpable sign of God's bounty to His creatures on earth and a sign of His perfect order. Dr. El Fandy comments on this fact saying:

This large amount of water is not accidental or in vain, but according to precise measure in order that the earth holds it and thus affords an environment suitable for life to nourish and flourish on it. This large amount of water, however: (a) prevents the occurrence of large differences in air temperature between winter and summer. (b) Provides the atmosphere with water vapour sufficient for the fresh water cycle.<sup>66[66]</sup>

God Almighty attracts our attention to the extreme importance of a very simple fact in our life i.e. fresh water. We take it for granted that fresh water is there for us to drink, and we forget the bounteous power behind it. In The Holy Qur'an, God says:

أَفَرَأَيْتُمُ الْمَاءَ الَّذِي تَشْرَبُونَ ﴿٦٨﴾ أَأَنْتُمْ أَنْزَلْتُمُوهُ مِنَ الْمُزْنِ أَمْ نَحْنُ الْمُنزِلُونَ ﴿٦٩﴾

لَوْ نَشَاءُ جَعَلْنَاهُ أُجَاجًا فَلَوْلَا تَشْكُرُونَ ﴿٧٠﴾

سورة الواقعة الآيات 68 - 70

Have you considered the water you drink?  
Did you send it down from the clouds, or  
did We send it?  
Did We will, We would make it bitter; so  
why are you not thankful?  
Chapter 56 verses (68 – 70)

The fresh water cycle is one of God's wonders to maintain life on earth. Rainfall, as we have seen, is the result of the condensation of water vapour ascending from the vast areas of water on the earth's surface, and under certain climatic conditions it falls down in the form of rain drops, hail or snow.

Rainfall in itself is amazing, for it shows God's perfect order in the universe. God has subjected the sun to sub serve man in many ways, one of them is that it is a direct cause of water evaporation from seas and oceans. At the same time, God has enveloped the earth with an atmospheric cover to protect us from the danger of heavenly bodies that might fall on our earth. The atmospheric cover also helps in preserving the earth's main source of life i.e. fresh water from being wasted in the vast universe.

The Holy Qur'an is an inexhaustible reservoir of knowledge for us to meditate and try to come closer to our Bounteous Creator We read in The Holy Qur'an:

66[66]"Islam and Science", book VI, by Prof. Dr. M.G. El Fandy

## وَالسَّمَاءِ ذَاتِ الرَّجْعِ ﴿١١﴾

سورة الطارق 11

By heaven of the returning rain <sup>67[67]</sup>

God here swears “By heaven of the returning rain”. And when God swears by something, it should be of paramount value. He wants to attract our attention to the importance of the atmospheric cover, for one of its multiple functions is to prevent the water vapour from being wasted in the infinite space, and helps in dropping it back on earth in the form of fresh water. Otherwise the earth would have been like the moon i.e. a dead planet.

Again, God attracts our attention to His merciful and bounteous nature towards His creatures. He makes heavenly barriers between fresh and salted water. He says in The Holy Qur’an:

﴿ وَهُوَ الَّذِي مَرَجَ الْبَحْرَيْنِ هَذَا عَذْبٌ فُرَاتٌ وَهَذَا مِلْحٌ

أَجَاجٌ وَجَعَلَ بَيْنَهُمَا بَرْزَخًا وَحِجْرًا مَّحْجُورًا ﴿٥٣﴾

الفرقان 53 [queriesonislam.wordpress.com](http://queriesonislam.wordpress.com)

And it is He who let forth the two seas this one sweet,  
grateful to taste, and this  
salt, bitter to the tongue,  
and He set between them a barrier, and a ban forbidden, <sup>68[68]</sup>

أَمَّنْ جَعَلَ الْأَرْضَ قَرَارًا وَجَعَلَ خِلَالَهَا أَنْهَارًا وَجَعَلَ لَهَا

رَوَاسِيَ وَجَعَلَ بَيْنَ الْبَحْرَيْنِ حَاجِزًا ۗ أَلَيْسَ مَعَ اللَّهِ بِلَا أَكْثَرُ لَهُمْ لَا

يَعْلَمُونَ ﴿٦١﴾

سورة النمل 61

He who made the earth a fixed place  
and set amidst it rivers  
and appointed for it firm mountains  
and placed a partition between the two seas.  
Is there a god with God? <sup>69[69]</sup>

67[67] Chapter 86 verse 11

68[68] Chapter 25 verse 53

69[69] chapter 26 verse 61

These two verses indicate God's power and generosity for it is but a miracle that the fresh water does not mix up with the salted water. There is a heavenly rule that governs this relationship, for it has been proved that fresh water floats over salted one, as if there is a barrier that forbids them from being mixed up.

We cannot help but thinking what would have happened if these barriers were not there! Sure, fresh water would not have been available and life would have been impossible

In one of his lectures Sheikh Azzindani comments on the verse "and placed a partition between the two seas," saying that the two seas in this verse could also be two salted ones. It was not until 1873 that Man knew that salted seas are not of the same quality and that the qualification of water in each differs from the other. They differ in the degree of salt, temperature, condensation, water animals and the ability to dissolve oxygen.

He goes on saying that for the first time in 1942 and as a result of long strenuous researches from hundred different marine stations, it was found that the Atlantic ocean, for example, consists of different seas each with its own qualifications.

If this is the case in one ocean, it is but natural that two different seas would differ, for example, the Mediterranean Sea and the Atlantic Ocean. A question that comes to one's mind: Why these two seas do not mix? The answer is that there is a water partition that acts as a border between them. These borders cannot be seen, but can be proved by accurate and minute measurements of the degree of salt, temperature...etc.

He adds explaining the same verse saying that the word "مرج" means "mix" and "برزخ" means "partition", but the verse adds a very important word "لا يبغيان" which means that they do not overrun one another. So, the verse does not deny mixing, but it denies the overrunning of one sea over the other. This partition does not allow a quick mixing, because has this mixing been quick the big sea would have overrun the small one and stamps it with all its qualifications. But this partition makes this mixing very slow and over a long period so that the water that overruns from one sea to the other loses its qualifications and acquires the qualifications of the new ones.

It is but natural that there should be a partition between salted seas and rivers which we call estuary. This estuary has a special environment that shuns out the fish in both the sea and the river and allows for a special kind of fish.

Have you thought my dear friend, why God has created rivers narrow and short in comparison with the great width and length of oceans and seas? Rivers are made so that their fresh water does not evaporate easily while oceans are wide so that evaporation takes place on a large scale. And because I think God gives us water according to our needs, while preserving the greater part in the form of salt water to evaporate and ironically becomes the main source of fresh water on earth.

What is really interesting is that it has been proved that pearls, as they are obtained from certain kinds of seas, they can be also obtained from certain kinds of rivers. Pearls could be found in the sweet water in England, Wales, Scotland as well as in Japan. Fresh water also contains some high quality minerals, for example diamonds which could be extracted from sediments of dried rivers. Zircon and Topaz could also be found in the sediments of rivers. We find, in The Holy Qur'an, God says:

مَرَجَ الْبَحْرَيْنِ يَلْتَقِيَانِ ﴿١٩﴾ بَيْنَهُمَا بَرْزَخٌ لَا يَبْغِيَانِ ﴿٢٠﴾

فَبِأَيِّ آلَاءِ رَبِّكُمَا تُكَذِّبَانِ ﴿٢١﴾ يَخْرُجُ مِنْهُمَا اللَّوْلُؤُ وَالْمَرْجَانُ ﴿٢٢﴾

سورة الرحمن الآيات 19 – 23

He let forth the two seas that meet together,  
between them a barrier they do not over pass.  
Oh which of your Lord's bounties will you and you deny?  
From them come forth the pearl and the coral<sup>70[70]</sup>

وَمَا يَسْتَوِي الْبَحْرَانِ هَذَا عَذْبٌ فُرَاتٌ سَائِغٌ شَرَابُهُ وَهَذَا مِلْحٌ أُجَاجٌ  
وَمِنْ كُلِّ تَأْكُلُونَ لَحْمًا طَرِيًّا وَتَسْتَخْرِجُونَ حِلْيَةً تَلْبَسُونَهَا وَتَرَى  
الْفُلُكَ فِيهِ مَوَاحِرَ لِيَتَّبِعُوا مِنْ فَضْلِهِ ۗ وَلَعَلَّكُمْ تَشْكُرُونَ ﴿١٢﴾

سورة فاطر آية 12

Not equal are the two seas; this is sweet, grateful to taste,  
delicious to drink,  
and that is salt, bitter to the tongue  
yet of both you eat  
fresh flesh, and bring forth out of it ornaments  
for you to wear<sup>71[71]</sup>

I think the “two seas” in the first verse is explained by the other verse one is sweet while the other is salted i.e. rivers and seas and oceans.

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70[70] Chapter 55 verses 19-23

71[71] Chapter 35 verse 12

## Chapter XI

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- **Atmospheric Pressure on the Human Chest**

فَمَنْ يُرِدِ اللَّهُ أَنْ يَهْدِيَهُ يَشْرَحْ صَدْرَهُ ۖ لِلْإِسْلَامِ وَمَنْ يُرِدْ  
أَنْ يُضِلَّهُ يَجْعَلْ صَدْرَهُ ضَيِّقًا حَرَجًا كَأَنَّمَا يَصْعَدُ فِي السَّمَاءِ  
كَذَلِكَ يَجْعَلُ اللَّهُ الرِّجْسَ عَلَى الَّذِينَ لَا يُؤْمِنُونَ ﴿١٢٥﴾

سورة الأنعام آية 125

Whomsoever He desires to lead astray,  
He makes his breast narrow, tight,  
as if he were climbing to heaven<sup>72[72]</sup>

Dr. El Fandy comments on this point saying:<sup>73[73]</sup>

Atmospheric pressure, and consequently oxygen amounts in the air, decrease rapidly with increasing height above the Earth's surface....

Evidently at 12.000 meter the atmospheric pressure and hence oxygen amount in the air decreases to one fifth of their value at M.S.L.

For this reason one feels the need to a wider breast in order to inhale greater amounts of air (and hence of oxygen) as he rises up in the sky without outer protection.

We may question ourselves, who told the illiterate prophet Mohammed about this natural phenomena, which was only discovered at the age of balloons, planes and space travel? It must have been a true inspiration from our Creator.

In a comment on this verse Sheikh Azzindani says that in an encounter with Dr. Salah Eldeen Al Maghraby - a member of the American Committee for Space Physiology, and Professor of space Physiology in the British Institute for Space Physiology – he told him that when they studied the effect of high altitudes on human beings they found that pilots who fly at high altitudes pass through different atmospheric pressure.

They discovered that up to 10,000 feet above sea level is an altitude within which the pilot remains safe, he will not feel any shortage of air. But, if he flies within an altitude of 10,000 to 16,000 feet, parts of his body would be capable of compensating the shortage in oxygen and air pressure. And between 16,000 and 25,000 feet if the pilot's equipments fall into disorder he would start to feel fainting, have a headache, and senses a deep inclination to sleep, difficulty in breathing. His stomach, would swell and press over the chest and then he would feel his chest is getting narrower.

Did Prophet Mohammed have an aero-plane with which he would rise to such high altitudes? Did he have the sophisticated equipment with which to study such phenomena?

72[72] Chapter 6 verse 125

73[73] "Islam and Science", book II, by Prof. Dr. M. G. El Fandy



And what is worth mentioning is that all the mountains of the entire Arab peninsula are much lower than such altitudes.

Have you seen the accurate description of the universe and our earth? Could it be done by our illiterate prophet who belonged to an illiterate society, more than 14,00 years ago? We cannot but kneel with awe to God, whose will is to reveal as much as He wishes and at the time He wishes of His Might and power to those on earth so that they would become grateful and follow His straightforward path.

We cannot but thank God who subjects science to explain to any person, with a free and healthy mind, that the Book which God has blessed us with, comes but from the Mighty Greater in whose power it is to describe the whole universe from the out side, at a time humanity had not yet reached the stage of maturity. We thank God whose Mercy has illuminated our path on earth a path that leads to everlasting salvation and heavenly bliss.

What is really amazing is that God subjects many non-Muslim scientists many of whom are non-believers to prove the Almighty's Power and to explain His last Book which He has promised to safeguard from any change:

إِنَّا نَحْنُ نَزَّلْنَا الذِّكْرَ وَإِنَّا لَهُ لَحَافِظُونَ ﴿٩﴾

سورة الحجر آية 9

It is We who have sent down the Remembrance and  
we watch over it. <sup>74[74]</sup>

God also orders Prophet Mohammed and his followers to recite The Holy Qur'an and follow its instructions; as for its explanation God takes it upon Himself to do that:

لَا تُحْرِكْ بِهِ لِسَانَكَ لِتَعْجَلَ بِهِ ﴿١٦﴾ إِنَّ عَلَيْنَا جَمْعَهُ وَقُرْآنَهُ ﴿١٧﴾

فَإِذَا قَرَأْتَهُ فَاتَّبِعْ قُرْآنَهُ ﴿١٨﴾ ثُمَّ إِنَّ عَلَيْنَا بَيَانَهُ ﴿١٩﴾

سورة القيامة الآيات 16-19

Move not thy tongue with it  
to hasten it;

Ours it is to gather it, and to recite it.  
So, when We recite it, follow thou its recitation  
Then Ours it is to explain it <sup>75[75]</sup>

74[74] Chapter 15 verse 9

75[75] Chapter 75 verses 16 – 19

## Chapter XII

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- **Internal or Deep Storms and Waves in Seas and Oceans**

أَوْ كَظُلُمَاتٍ فِي بَحْرٍ لُجِّيٍّ يَغْشَاهُ مَوْجٌ مِّنْ فَوْقِهِ  
مَوْجٌ مِّنْ فَوْقِهِ سَحَابٌ ظُلُمَاتٌ بَعْضُهَا فَوْقَ بَعْضٍ إِذَا أَخْرَجَ يَدَهُ  
لَمْ يَكَدْ يَرِنَهَا وَمَنْ لَّمْ يَجْعَلِ اللَّهُ لَهُ نُورًا فَمَا لَهُ مِنْ نُورٍ ﴿٤٠﴾

سورة النور آية 40

Or they are as shadows upon a sea obscure  
covered by a billow  
above which is a billow  
above which are clouds;  
when he puts forth his hand, well-nigh he cannot see it.  
And to whomsoever God assigns no light,  
no light has he.  
Chapter 24 verse 40

This verse expresses internal violent storms in the deep seas with their strong deep layers of waves: one upon the other. Here God coats a scientific fact with the most beautiful artistic expression. He compares the futility of unbelievers' action to the pitch darkness in the deep seas when it is exposed to a violent storm. It is so dark that he could not even see his own hand.

This accurate description of storms in the deep seas became known to man only in 1900, when the Scandinavian sailors discovered that there are deep waves other than the ones on the surface. These deep waves, says Sheikh Azzidani, happen from 40 – 200 meters while pitch darkness starts from 200 meters. Mr. M.K. Abdelsamad adds that these waves are extremely strong and swift, and they happen because of some earthquakes taking place at the bottom of seas.

What is really amazing is that this accurate description is made by an illiterate person who lived all his life in the arid desert of Saudi Arabia and away from the environment of seas and oceans. Besides, a human body could not bear diving more than 30 meters without modern equipment; and if he does he dies.

Was prophet Mohammed an expert in diving and was he equipped with the most sophisticated equipments. Certainly not, this description could not be but an inspiration by the Creator not only of seas but of everything in the whole universe.

It is one of more than a thousand verses that denote scientific facts known only in the 20<sup>th</sup> century. It is one of a set of verses that renews the interpretation of The Holy Qur'an to suit scientific materialistic minds. They provide man with the light that might illuminate his soul and carry him from the age of spiritual darkness into the heavenly light. Hence, making a healthy balance between the spiritual and the materialistic and help in building a sound and wholesome person.

## Part Two

### The Miraculous Nature of the Holy Qur'an Concerning the Science of Embryology and Medical Science

#### Chapter 1

- **The development of the science of embryology versus the Holy Qur'an**

There is no doubt that science is a blessing to man, for it increases his scientific knowledge, which in turn brings healthy and unbiased minds closer to God.

And, as the Holy Qur'an is full of scientific medical and hygienic signs of which significance and truth were only revealed in the 20th century. I therefore find it my duty to identify and explain them with reference to purely scientific text books. Professor Keith L. Moore Says.

At first I was astonished by the accuracy of the statements that were recorded in the 7<sup>th</sup> century AD, before the science of embryology was established. Although I was aware of the glorious history of Muslim scientists in the 10th century A.D. and of some of their contributions to Medicine, I knew nothing about the religious facts and beliefs contained in the Qur'an and Sunnah.<sup>76[76]</sup>

The Holy Qur'an deals with man from the stage of being half a cell to a grown up person. It is I may say, the most difficult part of this book, bearing in mind that I am not a scientist, but an ordinary person who tried her best to understand and simplify the most scientific facts. I am going to deal with human development step by step in the best way I can get to make this scientific subject easier for any simple person.

To know to what extent the verses of the Holy Qur'an had been and will ever be miraculous signs, we have to get a brief historical background about the development of the science of embryology.

Aristotle had summarized the two main concepts, prevailing at his time, about embryology:

**The first** is that a miniature fetus already exists in man's sperm and when it enters a woman's womb it grows like the seed in the soil. The role of the women's womb is only as an incubator that provides it with the nutrition it needs.

**The second** is that the embryo is "developed from a formless mass that resulted from the union of semen with menstrual blood "<sup>77[77]</sup>

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76[76] "The Developing Human", Keith . Moore

77[77] "The Developing Human", Keith . Moore

Aristotle himself was in favour of the second theory. Dr. M.A El Bar adds that these two theories prevailed up to the 18<sup>th</sup> century when Spella Nzani and Wolf proved through several experiments that both man and women share in the formation of the embryo.

It was not until 1859 that scientists got to know that the sperm is but a living cell and the Oocyte (the unfertilized egg) is also a living cell. In 1875 Hertwig was able to observe how the sperm fertilizes the Oocyte, and proved that both the sperm and Oocyte share in forming the Zygote (fertilized egg).<sup>78[78]</sup>

This historical survey proves that humanity did not know that the embryo is formed by a mixture of the sperm and the Oocyte, and that it passes through several stages of development except in the 19<sup>th</sup> century and scientists are only sure of these two scientific facts in the 20<sup>th</sup> century.

And, in contrast to what has preceded, we find that the Qur'an and the tradition of the prophet, more than 1400 years ago, are full of verses and sayings of Prophet Mohammed, that deal with these scientific facts in a simple and clear, yet highly scientific way.

Dr. Maurice Bucaille says:

The situation is quite different in the Qur'an. The Book mentions precise mechanisms in many places and describes clearly defined stages in reproduction, without providing a single statement marred by inaccuracy. Everything in the Qur'an is explained in simple terms, which are easily understandable to man, and in strict accordance with what was to be discovered much later on<sup>79[79]</sup>

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To make this clear, let us go step by step with the formation of the embryo as science advocates in contrast with what is mentioned in the Holy Qur'an and the sayings of Prophet Mohammed:

Prof. Keith L. Moore says:

Human development begins at fertilization when a sperm unites with an ovum to form a unicellular organism called a zygote.. This cell marks the beginnings of each of us as a unique individual.<sup>80[80]</sup>

The Holy Qur'an states:

أَتَىٰ عَلَىٰ الْإِنسَانِ حِينٌ مِّنَ الدَّهْرِ لَمْ يَكُن شَيْئًا مَّذْكُورًا (1) إِنَّا  
إِنسَانٍ مِّنْ نُّطْفَةٍ أَمْ شَاجٍ نَّبْتَلِيهِ فَجَعَلْنَاهُ سَمِيعًا بَصِيرًا  
" الإنسان " آية 2.

Verily we created man from  
Mixture of germinated drop.<sup>81[81]</sup>

78[78] "The Creation of Man Between Medeciene and the Qur' an " by Dr. M. A. Elbar

79[79] The Bible, The Qur'an and Science" Dr. Mourice Bucaole

80[80] The Developing Human" by Dr. Keith L. Moore

81[81] Chapter 76, translated by Azzindani, "The Developing Human"

Ibn Abbass (the Prophet's cousin) and the best interpreter of the Holy Qur'an says that the "mixture of germinated drop" means the fluid of the man and that of the woman when they get mixed, the embryo goes from one stage of development to another.

All ancient interpreters of the Holy Qur'an strictly followed the same idea simply because it is mentioned in the Holy Qur'an and the prophet's sayings. It is recorded that one of the Jews asked the prophet:

" فقال يا محمد مم يخلق الإنسان، قال رسول الله صلى الله عليه وسلم:

يا يهودى، من كل يخلق، من نطفة الرجل ومن نطفة المرأة:

مسند الإمام مسلم"

O, Mohammed what is man created from? " The prophet replied: "O Jew, (he is) created from both from the man's Nutfah and from the woman's Natfah" (Nutfah: a drop or part of fluid)<sup>82[82]</sup>

Prophet Mohammed also said:

ما من كل الماء يكون الولد " صحيح مسلم.

"Not from all the fluid is the offspring created"

Sheikh Azzindani adds that:

It is also known that not all parts of the ejaculate are equally potent in the fertilization process.<sup>83[83]</sup>

It is known that every human cell consists of 46 chromosomes, but what is really amazing is that the sperm consists of half this number while the ovum consists of the second half. So when they mix they form the first cell in our creation.

God states in the Holy Qur'an the different stages of development of an embryo:

لَقَدْ خَلَقْنَا الْإِنْسَانَ مِنْ سُلَالَةٍ مِّنْ طِينٍ (١٤) لَئِنَّا نُطْفِئُ قُرْبَىٰ أَرْمَكُ بَيْتٍ (١٥) لَقَدْ خَلَقْنَا النُّطْفَةَ نَظْفًا لَقَدْ خَلَقْنَا الْمُرْسُخَةَ عِظَامًا فَكَسَدُوا نَا الْعُنْظَامُ خَلَقْنَا مَلْئِكًا رَأْسًا فَتَبَارَكَ اللَّهُ أَحْسَنُ  
الذَّالِقِينَ (١٤)

سورة المؤمنون 12-14

We created man of an extraction of clay,  
then We set him, a drop, in a respectable secure,  
then We created of the drop a clot<sup>84[84]</sup>

82[82] "The Developing Human" by dr. Kieth L. Moore (Translated by Azzindani)

83[83] "The Developing Human" by dr. Kieth L. Moore (Comment by Azzindani)

84[84] The proper translation of "علقة" is a leach-like structure

then We created of the clot a tissue <sup>85[85]</sup>  
then We created the tissue bones  
then We garmented the bones in flesh  
thereafter we produced him as another creature.  
So blessed be God, the fairest of creators! <sup>86[86]</sup>

We have already dealt with the “germinated drop”, now we are going to move to the second point in this verse: “the respectable secure”, or the mother’s womb which is firmly secured in the mother’s body to become, we may say, an ideal cradle that allows a safe place for the formation and development of the embryo. The bony pelvis keeps safe the woman’s genital system. It also keeps safe both the woman’s and man’s bladder, the rectus, the blood and lymphatic vessels...etc.

Yet, the woman bony pelvis differs from that of man. It should be ready for the enlargement of the womb and it should also be ready to deliver the baby. The bony pelvis of the woman keeps the womb in a safe secured place from any dangers the woman may be exposed to.

It has four joints, which enable it to enlarge on pregnancy and delivery. Modern scientists say that the progesterone as part of its function facilitates the movement of the pelvis to be able to enlarge according to the development of the embryo. And at the approach of delivery date the pituitary gland produces a hormone which enables the pelvis to enlarge for a safe passage of the baby.

As for the implantation of the egg in the female genital organs Dr. Maurice Bucaille in his book “The Bible, The Qur’an and Science” says:

Once the egg has been fertilized in the Fallopian tube, it descends to lodge inside the uterus; this is called the “implantation of the egg” the Qur’an names the womb where the fertilized egg is lodged.

"ونقر في الأرحام ما نشاء إلى أجل مسمى"

الحج ايه 5

We cause whom We will to rest in the womb for an appointed term”  
Chapter 22, verse 5.

Thus the implantation of the egg in the uterus (womb) is the result of development of villosities, veritable elongation of the egg, which, like roots in the soil, draw nourishment from the thickness of the uterus necessary to the egg’s growth. These formations make the egg literally cling to the uterus. This is a discovery of modern times.

He goes on saying that the true translation of the word “علق” is something that clings while “blood clot” “is a mistake against which one should guard”, Sheikh Azzindani says that the word “علق” means in Arabic “leech” Dr. Mohammed Ali El Bar agrees on the linguistic interpretation of the word “علق”. He adds that this leech-like “egg” is surrounded with clotted blood. The matter which made ancient scientists say that the embryo at this stage is a blood clot, simply because this leech-like egg or substance

85[85] The proper translation of “مضغنة” is a chewed-like structure

86[86] Chapter 23 “Koran Interpreted” by A.S Arberry

could not be seen by the naked eye, while it is surrounded with clotted blood which could be seen by the naked eye.<sup>87[87]</sup>

Professor Keith L. Moore in his book "The Developing Human" says:

As the zygote, a single cell, passes down the uterine tube, it undergoes mitotic cell division known as cleavage. This phase of development begins with the first mitotic division of the zygote and ends with formation of the blastocyst.

.....  
By the end of the first week, the blastocyst is superficially implanted in the compact layers of the endometrium.

The following stage of development is the "مضغة" which is like a chewed flesh or substance. Its "irregular surface showing somites, resembling teeth prints on a substance which has been chewed."<sup>88[88]</sup> While Dr. Maurice Bucaille in his book "The Bible the Qur'an and science" says that:

"Chewed flesh," is the translation of the word "mudga"....The embryo is initially a small mass. At a certain stage in its development, it looks to the naked eye like chewed flesh.

Then the Holy Qur'an superbly and accurately describes how the bones of an embryo are created and then how the bones are clothed with flesh.

Dr. Maurice Bucaille in the same book says: [www.queriesonislam.wordpress.com](http://www.queriesonislam.wordpress.com)

The bone structure develops inside this mass in what is called the mesenchyma. The bones that are formed are covered in muscle; the word 'lahm' applies to them.

He goes on confessing that what is mentioned in the Holy Qur'an agrees totally with modern science. He says:

The Qur'anic description of certain stages in the development of the embryo corresponds exactly to what we today know about it, and the Qur'an does not contain a single statement that is open to criticism from modern science.

He adds that:

More than a thousand years before our time, at a period when whimsical doctrines still prevailed, men had a knowledge of the Qur'an. The statements it contains express in simple terms truths of primordial importance which man has taken centuries to discover.

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87[87] "The Creation of Man Between Medicine and the Qur'an" by Dr. Mohammed Ali El Bar.

88[88] "The Developing Human", comment by Azzindani



## Who Decides the Sex of the Embryo

Scientifically man's sperm that decides the sex of the embryo. Dr. Keith L. Moore in his book "The Developing Human", says:

The embryo's sex is determined at fertilization by the kind of sperm that fertilizes the ovum. Hence it is the father rather than the mother whose gamete determines the sex of their offsprings. Fertilization by an X-bearing sperm produces an XX Zygote, which normally develops into a female, where as fertilization by a Y-sperm produces an XY Zygote, which normally develop into a male.

The Holy Qur'an miraculously states:

وَأَنَّهُ خَلَقَ الذَّكَرَ وَالْأُنثَىٰ (45) نُطْفَةَ إِنثٍ نَذَىٰ (46)

النجم آيات 46-45

and that He Himself created the two kinds  
male and female of a sperm – drop, when it was cast forth.

Prophet Mohammed (may peace be upon him) extraordinarily accurately says:

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ماء الرجل ابيض وماء المرأة أصفر فإذا اجتمعا فعلا منى الرجل  
منى الموقر فذكر بإذن الله وإذا علا منى المرأة على منى الرجل  
أنث بإذن الله (صحيح مسلم)

The water of the man is white while the woman's water is yellow. if these two waters mix and the man's water overcomes the water of the woman the embryo is a boy by God's permission; and if the water of the woman overcomes that of the man, it is a girl, by God's permission.

Dr. El Bar says that the water in the vagina tends to be yellowish and so the water in graffian follicle and when the egg comes out from this follicle it is called the yellow substance. He adds that this in itself is a miracle for this fact was not known at that time.

The most important stage in the development of the embryo starts in the fourth week and ends in the eighth week. And at the end of the sixth week (42 days) is the peak of its development. Prophet Mohammed says:

إذا مر بالنطفة ثنتان وأربعين ليلة بعث الله إليها ملكاً فصورها وخلق سمعها  
بصرها وجلدها ولحمها وعظما ثم قال يا رب أذكر أم أنثى؟ فيقضى ربك  
ما شاء ويكتب الملك" رواه مسلم كتاب القدر.

“when forty two nights have passed over the “drops” Allah sends an angel to it, who shapes it and makes its ears, eyes, skin, flesh and



bones. Then he says, O! Lord, is it male or female? And your lord decides and the angel records it” (Muslim: Kitab Al- Qadar) <sup>89[89]</sup>

Sheikh Azzindani in “The Developing Human” Says:

By the beginning of the seventh week of development the embryo has acquired a skeleton, mostly cartilaginous, which gives form to the body of the embryo and recognizable human characteristics. After the 42nd day, the limb buds are longer with differentiated fingers and toes. The tail bud, which was previously conspicuous has regressed almost completely.

.....

The anlage of the eyes and ears make their appearance before the seventh week, but they do not have a human appearance as yet...

.....

The skeletal system, muscles and skin are fully developed and with recognizable human characteristics after the 42nd day... ..

.....

During the 4th week the anlage of the external genitalia appears and not until the 9th week do they show any distinguishing sexual characteristics. The male fetus can be clearly distinguished from the female only by the 12th week. According to the hadith, while all other organs and systems are well formed and have acquired human characters, the morphological appearance of the external genitalia (by which sex can be identified with the naked eye) is not distinct enough to permit sexual identification.

Professor Keith L. Moore in his book “The Developing Human” says:

Although the genetic sex of an embryo is determined at fertilization by the kind of sperm that fertilizes the ovum, there is no morphological indication of sex until the seventh week, when the gonads (future ovaries or testes) begin to acquire sexual characteristics. The early genital system is similar in both sexes and this initial period of early genital development is referred to as the indifferent stage of the reproductive organs.

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89[89] Translated by Azzindani in “The Developing Human”

## Chapter II The Ears and Eyes

- **The Ear:**

Dr. H.A Hamed says in his book “رحلة الإيمان في جسم الإنسان“ A Journey of Belief in the Human Body” , that the ear starts developing at the beginning of the 3rd week and completes its function by the twentieth week. It has been recognized that the fetus responds when its mother’s abdomen is examined by ultra sound, to the extent that it appears as if it is dancing. It could also hear its mother’s voice and the sound produced by her intestines. Hence it is easy to identify deafness while the baby is still a fetus in its mother’s Womb.

It has been established that the fetus hears the outside noise, it gets used to it and lives its own life i.e. sleeps and wakes up in spite of the darkness that surrounds it, it is not a silent world after all!!

- **The Eyes:**

Professor Keith L. Moore says in his book “The Developing Human” that the first evidence of the eyes development starts during stage 10 of development (about 22 days). “ He goes on adding, that “The eyelids meet and adhere by about the tenth week and remain adherent until about the twenty – sixth week. He also says that

Infants do not see well for the first few weeks. They have a vacant stare, mainly because of incomplete development of the macula lutea and fovea centralis, the area of the retina responsible for visual activity. These structures are not completely developed until about a month after birth.

We notice that the development of the eyes and ears start very early, Prof. K.L. Moore says, “The eyes and ears begin to develop during the fourth week”. But the sense of hearing functions much earlier than the sense of sight. Sheik Azzindani in “The Developing Human” says “After the 24<sup>th</sup> week, the fetus can hear sounds, and by the 28th week the retina becomes sensitive to light” This could be the reason why in most verses in the Holy Qur’an, we notice that the sense of hearing precedes the sense of sight, for example God says:

لَا نَسْأَلُكَ إِنَّمَا مِنْ نُطْفَةٍ أَمْ شَاجٍ نَبْتَلِيهِ فَجَعَلْنَاهُ سَمِيعًا بَصِيرًا (2)

الإنسان آية 2

We created man of a sperm drop, a mingling, trying, him  
and we made him Hearing, seeing

Chapter 76 vers2

لَكُمْ السَّمْعَ وَالْأَبْصَارَ وَالْأَفْئِدَةَ قَلِيلًا مَّا تَشْكُرُونَ (78)

It is he who produced for you hearing and eyes and hearts  
little thanks you show

Chapter 23 verse 78

أَمْ هَاتَكَوْ لَلَّاعِلْمُ وَاوْنِ شَيْئًا وَاوْ جَعَلَ لَكُمْ السَّمْعَ وَاوْ الْأَبْصَارَ  
وَاوْ الْأَفْئِدَةَ لَعَلَّكُمْ تَشْكُرُونَ (78)

النحل 78

And it is God who brought you forth  
knowing nothing from your mothers wombs  
and he appointed for you hearing,  
and sight, and hearts  
that haply so you will be thankful  
chapter 16 verse 78

عَ وَاوْ الْأَبْصَارَ وَاوْ الْأَفْئِدَةَ أَدَّ كُلُّ أُولَئِكَ كَانَ عِنْدَهُ مَسْئُورًا وَلَا (36)

الإسراء 36

the hearing, the sight, the heart all of the those  
shall be questioned  
Chapter 17 verse 36

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What is really interesting and adds to the supremacy of the sense of hearing over all senses is what Dr. Shebrawy states in his lecture "Scientific Enlightments in some Qur'anic verses." He says that the auditory evoked response is the more reliable test to prove that the person is really dead. That is to say the sense of hearing is the last sense to cease. We come to the conclusion that the sense of hearing is the first sense to function and the last to cease.

Prophet Mohammed endorses this scientific fact by saying: "If a person is placed in his tomb, and his friends start to move away, he hears their footsteps"

That is why many Moslems stay after the burial for as long as they can beside his tomb, reciting some verses from the Holy Qur'an just to console him and strengthen his faith.

## Chapter III

### • The Skin

The epidermis is the surface layer of the skin. It protects the body from bacteria. It also stops the leakage of the plasma from the blood vessels that are spread in the dermis. In case of sudden loss of blood and plasma, the compensatory physiological mechanisms of the body fail. Shock follows as a result of a drop in the amount of blood reaching the chambers of the heart.

There are recipients of heat and cold that are spread in the dermis. The recipients of heat are at their peak when the temperature is between 32-48 centigrade. But, when temperature is 50 centigrade the recipients lose their sensitivity and in order to bring back the sense of feeling the skin should be replaced. This scientific fact mentioned in the Holy Qur'an 1400 years ago. God says:

وَأُبَايَاتُنَا سَوْفَ نُنصَلِيهِمْ نَارًا كَالَّذِي نَضَّجَتْ جُلُودَهُمْ  
بَدَّلْنَاهُمْ جُلُودًا غَيْرَ هَٰذِهِ أَنْبُوقًا وَإِنَّا لَعَالَمُونَ (56)

النساء 56

surely those who disbelieve in Our signs- We shall certainly roast them at a Fire, as often as their skins are wholly burned, We shall give them in exchange other skins, that they may taste the chastisement, surely God is

all – mighty, All – wise

Chapter 4 verse 56

On the other hand man feels extreme pain when temperature reaches freezing point that is why God orders the fire in which Abraham was thrown to cool down and be safe, otherwise Abraham would have sensed extreme pain from cold as well as hot temperature

In chapter 21, God says:

قُلْنَا يَا نَارُ كُونِي بَرْدًا وَسَلَامًا عَلَىٰ إِبْرَاهِيمَ (69)

We said O fire, be coolness and safety for Abraham!

Chapter 21 verse 69

## Chapter IV

### • Finger Prints

Dr. H.A. Hamed says that fingerprints are a register of the curves, which exist when the dermis adheres with the epidermis. These curves differ from one person to the other. Miraculously they are never identical in two persons even if they are twins. They appear in the 3rd month and remain the same till the person's death, even if the skin is burned, new skin grows with the same fingerprints without the slightest alteration.

What is really interesting is that some criminals in Chicago thought that they could change their fingerprints. So, they removed the skin from their fingertips and replaced it with some pieces from other parts of their bodies. But they were disappointed because the implanted parts grew with the same fingerprints without the slightest change. That is why they are used by the police as a definite proof of the identity of the criminal.

Fingerprints are a palpable sign of God's power. They: identify the person without the slightest mistake. So, they become the best proof and the truest witness in this world and in the next world.

God in chapter 75, verses 3-4 states that it is in His power not only to gather a dead person's bones, but He is able to reshape his finger prints

حَسْبُ الْإِنْسَانِ أَأَلَّنَ نَجْمًا مَعَ عَظْمَيْمَقْلَهُ (3) بَيْنَ عَالِي أَنْ تُسَدَّ وَي  
بِنَازِهِ (4)

القيامة 4-3  
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What, does man reckon we shall not gather his bones?

Yes indeed; we are able to shape again his fingers.

God is not only going to reshape them but He is going to make them testify against the person:

يَوْمَ يُحْشَرُ أَعْدَاءُ اللَّهِ إِلَى النَّارِ يَفُوزَ عَوْنَتِي (19) أَمْ أَجَاؤُوهَا  
هُمْ وَأَبْصَارُهُمْ وَجُلُودُهُمْ بِمَا كَانُوا يَعْمَلُونَ (20) قَالُوا  
مَشْهَدَتُّمْ عَلَيْنَا قَالُوا أَنْطَقَنَا اللَّهُ الَّذِي أَنْطَقَ كُلَّ شَيْءٍ وَهُوَ  
مُأْوَّلَ مَا رَخَّطَقْنَا لِيَه تَرْجَعُونَ (21)

فصلت 21-19

Upon the day when God's enemies are mustered to the Fire, duly disposed, till when they are come to it, their hearing, their eyes and their skins bear witness against them concerning what they have been doing and they will say to their skins, why bore you witness against us? They shall say, God gave us speech, as he gave everything speech.

Chapter 41 verses 19-21

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## Chapter V

### • The Primitive Streak

We can witness in prophet Mohammed's sayings scientific miracles for most of his sayings are but an inspiration from The All- Knowing. Here are two sayings of prophet Mohammed miraculously denote an ultra scientific discovery. The discovery of the primitive streak and its vital importance in the formation of the embryo was known only in the second half of the twentieth century. The prophet's sayings about the primitive streak run as follows:

عن أبي هريرة رضي الله عنه عن رسول الله صلى الله عليه وسلم  
كل ابن آدم يأكله التراب إلا عجب الذنب منه خلق ومنه يركب "

عن أبي سعيد الخدري رضي الله عنه عن رسول الله صلى  
عليه وسلم " يأكل التراب كل شيء من الإنسان إلا عجب ذنبه قبل  
و ما هو يا رسول الله ؟ قال : مثل حبه خردل منه ينشأ"

The First Saying:-

Prophet Mohammed (may peace and prayers be upon him) says: Dust devours all man except the primitive streak from which he is created and from which he will be recreated.

The Second Saying:-

Prophet Mohammed (may peace and prayers be upon him) says: dust devours all man except the primitive streak. He was asked: what is it? He replies: It is like a mustard seed from which he is built.

Form these two sayings we can see that:

- 1- The primitive streak is of vital importance in the creation of the embryo.
- 2- It is as small as a mustard seed.
- 3- The recreation of man from the primitive streak on doomsday belongs only to God. But if science has proved the truthfulness of most of what is mentioned in the prophet's sayings the rest should be taken for granted simply because science has no power over the metaphysical.

Dr. Keith L/ Moore, in his book "The Developing Human" says:

The third week is characterized by the formation of the primitive streak and the three germ layers, from which all tissues and organs of the embryo develop.

And that:

Much of the growth and elongation of the embryonic disc results from the continuous migration of cells from the primitive streak.

Those who wish to widen their knowledge about, the very interesting role the primitive streak plays in developing an embryo may refer to “The Developing Human” by Professor Keith Moore

As for the fate of the primitive streak professor Keith L. Moore says:

The primitive streak actively forms intraembryonic mesoderm until about the end of the fourth week; thereafter’ production of mesoderm from this source slows down. The primitive streak quickly diminishes in relative size and becomes an insignificant structure in the sacrococcygeal region of the embryo.

We may liken the primitive streak, which diminishes until it becomes “an insignificant structure” to the seed which when covered with water grows to full maturity. All through the Holy Qur’an God Compares Resurrection to the growth of plant:

تَرَى الْأَرْضَ خَاشِعَةً فَإِذَا أَنْزَلْنَا عَلَيْهَا الْمَاءَ اهْتَزَّتْ  
الَّذِي أَحْيَاهَا الْمُدْحِيبِ الْمَوْتِ وَإِنَّهُ عَلَىٰ كُلِّ شَيْءٍ قَدِيرٌ (39)  
فصلت 39

And of His signs:

is that thou seest the earth humble;  
then , when we send down water upon it .

it quivers and swells.

Surely He who quickens it is He who  
quickens the dead; surely He is powerful  
over everything.

Chapter 41 verse 39

نَزَلَ مِنَ السَّمَاءِ مَاءً بِقَدَرٍ فَأَنْشَرْنَا بِهِ بَلْدَةً مَيِّتًا كَذَلِكَ  
تُخْرَجُونَ (11)

الزخرف 11

and who sent down out of heaven water  
in measure ; and We revived thereby  
a land that was dead;  
even so you shall be brought forth

Chapter 32 verse 11

يُرْسِلُ الرِّيَّاحَ بُشْرًا بَيْنَ يَدَيْ رَحْمَتِنَا إِذَا أَقْلَّتْ سَحَابًا  
بَلَدٍ مَيِّتٍ فَأَنْزَلْنَا بِهِ الْمَاءَ فَأَخْرَجْنَا بِهِ مِنْ كُلِّ الثَّمَرَاتِ  
كَذَلِكَ نُخْرِجُ الْمَوْتَى لَعَلَّكُمْ تَذَكَّرُونَ (57)  
الأعراف 57



It is He who loosens the winds, bearing good tidings  
before His mercy,  
till, when they are charged with heavy clouds, We drive it  
to a dead land ,  
and therewith send down water, and  
bring forth therewith  
all the fruits.  
Even so We shall bring forth the dead; haply you  
will remember.  
Chapter 7 verse 57

As for true believers resurrection is a fact. We all know that if God wants something to be done, it is done. But God knows our controversial nature, so he tries to appeal to our reason and sense of logic.

الإِنْسَانَ أَنَّا خَلَقْنَاهُ مِنْ نُطْفَةٍ فَإِذَا هُوَ خَصِيمٌ مُّبِينٌ (77) بَلْ لَدَا  
سَيِّدٍ خَلَقَهُ قَالَ مَنْ يَحْيِي الْعِظَامَ وَهِيَ رَمِيمٌ (78) الَّذِي  
أَنْشَأَهَا أَوَّلَ مَرَّةٍ وَهُوَ بِكُلِّ خَلْقٍ عَلِيمٌ (79) لَكُمْ مِنَ الشَّجَرِ  
الْأَخْضَرِ نَارٌ فَإِذَا أَفْتَمَ لَيْسَهُ تِلْكَ أَوْ لَكُمْ مِنَ الْأَرْضِ  
عَلَى أَنْ يَخْلُقَ مَا تَلَّهُمْ بَلَىٰ وَهُوَ الْخَلَّاقُ الْعَلِيمُ (81) وَإِذْ أَرَادَ  
شَيْئًا أَنْ يَقُولَ فَسِلْبُكَ حُكْنٌ فَايْتَذَكِّرْ بِهِ (82) مَا لَكَ مِنْ شَيْءٍ وَّإِلَيْهِ  
تَرْجِعُونَ (83)

يس 77-83

Has not man regarded how that we created him  
of a sperm – drop.  
Then lo , he is a manifest adversary.  
And he has struck for us a similitude  
and forgotten his creation.  
He says” Who shall quicken the bones  
when they are decayed?”  
Say: “He shall quicken them, who originated them  
the first time; He knows all creation,  
who has made for you out of the green tree,  
fire and lo, from it you kindle”.  
Is not He, who created the heaven and earth,  
able to create the like of them? Yes, indeed  
He is the All – Creator, the All knowing.  
His command when He desires a thing is to say to it  
Be and it is.

So glory be to Him, in whose hand is the dominion  
of every thing.

And into whom you shall be returned

Chapter 36 verses 77 – 83

After all that has preceded do you not agree with God when he praises Prophet Mohammed saying:

وَالذِّجَارِ مَا نَاظِرٌ وَلَا يَظُنُّ (١) أَحَدٌ بِكُمْ وَ لَوْ وَ مَعَى (٢) نَطِقُ عَنْ  
إِنِّ الْهُوُوُّ لِي (٣) وَ حَيُّ عَيْلُوْدٍ لِي (٤) تَدِيدُ الْقُوَى (٥)  
النجم-1-5

By the star when it plunges,  
your comrade is not astray, neither errs,  
nor speaks he out of caprice.  
This is naught but a revelation revealed  
taught him by one terrible in power very strong  
Chapter 52 verses 1 – 5

## Chapter VI

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### • Lechery (Adultery and Polygamy)

Lechery is a forbidden sin in all religions and God does not forbid something unless it is seriously harmful.

Lechery leads to dangerous hygienic problems which endangers humanity with incurable diseases:

- a) Gonorrhoea is a disease, which inflicts the person with great pain. It is carried from one person to the other by sexual intercourse. It is extremely painful, hard to cure and has many side effects.
- b) Syphilis is a palpable example of God's punishment, says Dr. Mohammed Kamel Abdel Samad "محمد كامل عبد الصمد" الإعجاز العلمي في القرآن. It appears after a few days or weeks from sexual intercourse in the form of a rash which even when it disappears, the microbe remains in the blood to reappear after one or two years in the form of red patches, or reappears in any other part of his body ex: the heart, brain. etc. Then it afflicts the patient with paralysis, madness, an ulcer in his kidney or his intestines. etc.

Lechery also causes soft ulcer that appears in the penis, scrotum, pubic region, the anus opening and thies.

Hence, it is only wise that all religions prohibit lechery Besides, lechery degenerates with man to the status of animals that care only about sex.

The origin in Islam is one wife, yet as a protective measure from such diseases, Islam offers a realistic wholesome cure i.e. polygamy Islam allows up to four wives, but made restrictions to limit its practice. Still the license is there in certain critical situations. Many men's sexual desire is so active that one wife will not suffice so, instead of roaming abroad and gets himself afflicted and inflicts his innocent wife, God has given him the opportunity to lead a wholesome life free from such diseases:

فَتُمْ أَلَا تَقْسُطُوا فِي الَّذِينَ تَامَى فَإِنَّكُمْ دُونَ مَا طَابَ لَكُمْ مِّنَ النِّسَاءِ  
ثَلَاثَ وَرُبَاعَ فَإِنْ خِفْتُمْ أَلَّا تَعْدِلُوا فَوَاحِدَةً  
النساء 3

If you fear that you will not act justly  
towards the orphans, marry such women  
as seem good to you, two, three, four  
but if you fear you will not be equitable  
then only one  
chapter 4 verse 3

To my surprise we find that the West attaches polygamy to Islam, while they forgot that there was not a ward against it in either the old or the new Testaments. Dr. El Mahgoub<sup>90[90]</sup> says that polygamy was spread among Christians before and after Islam, and the church prohibited it without any religious grounds. He added that this was one of the reasons which made Martin Luther revolt against the church simply because Christ did not prohibit it.

How Christ could have prohibited something which most of the prophets had practiced. Abraham had two wives, Jacob had four and so did Solomon, while David had many wives.

It is really shocking to find the church prohibiting a wholesome, natural practice, while some churches not only permit but bless an unhealthy, irreligious and abnormal practice i.e. Homosexuality. Some churches, in the United Kingdom perform marriage rituals between two men!!!

## Chapter VII Practicing Sexual Intercourse During Menstruation

ذَكَ عَنْ أَمِّ حَيْضٍ قُلْ هُوَ أَذَى فَاءَ تَزَلُوا النَّسَاءَ فِي أَمِّ حَيْضٍ  
وَهُنَّ حَتَّى يَطْهَرْنَ فَإِذَا تَطَهَّرْنَ فَأْتُوهُنَّ نِشْرَانِ إِنَّ اللَّهَ  
إِنَّ اللَّهَ يُحِبُّ التَّوَّابِينَ وَيُحِبُّ أَمَّ تَطَهَّرِينَ (222)  
البقرة 222

They will question thee concerning  
the monthly course. Say "It is hurt;  
so go apart from women during  
the monthly course, and do not approach them  
till they are clean. When they have cleansed  
themselves, then come into them as God  
has commended you". Truly, God loves  
those who repent, and he loves those  
who cleanse themselves.

Chapter 2 verse 222

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Practicing sexual intercourse during menstruation is forbidden because the womb at that period is inflamed and easily exposed to bacteria. Dr. El Bar says that blood is the best environment for microbes to increase and flourish. Besides, the capacity of the womb to resist the invading microbes, that exist on the penis, decreases that constitute a great danger for the womb. The resistance of the vagina becomes also very low, because the acid which it throws out and which kills the microbes decreases during menstruation.

That is why, goes on Dr. El bar sexual intercourse during menstruation is but letting microbes in, at a time when the womb could not resist.

It is not only women who are hurt, but men are also hurt. The increase of microbes leads to inflaming men's urinary tracts. The microbes could also invade the prostate, then to the spermatocyst, which could block the sperm duct and hence causes impotency.

It is not only that but other diseases also attack both women and men so the Holy Qur'an forbids such unhealthy practice and in this it is also ahead of science and scientists.

## Part Three

### A Variety of Topics

#### Chapter I

- 
- **The Theory of Relativity In TIME**

وَيَسْتَعْجِلُونَكَ بِالْعَذَابِ وَلَنْ يُخْلِفَ اللَّهُ وَعْدَهُ وَإِنَّ يَوْمًا  
عِنْدَ رَبِّكَ كَأَلْفِ سَنَةٍ مِمَّا تَعُدُّونَ ﴿٤٧﴾

... and surely a day  
with thy Lord is as a thousand years  
of your counting.  
Chapter 22 verse 47

يُدَبِّرُ الْأَمْرَ مِنَ السَّمَاءِ إِلَى الْأَرْضِ ثُمَّ يَعْرُجُ  
إِلَيْهِ فِي يَوْمٍ كَانَ مِقْدَارُهُ أَلْفَ سَنَةٍ مِمَّا تَعُدُّونَ ﴿٥﴾

He directs the affair from heaven to earth,  
then it goes up to Him in one day, whose measure is  
a thousand years of your counting.  
Chapter 32 verse 5

Ibn Abbas, the prophet's cousin, and the best interpreter of the Holy Qur'an, said in interpreting these verses, more than 1400 years, that the speed of God's orders from heaven to earth and back, in one day equals one thousand years of our counting.

The Arabs measure time by the lunar year. Hence if we apply this principle to the rotation of the moon in one thousand years, we find that according to scientific calculations, its speed is 299792.5 kilometer per second. This result is in complete conformity with the speed of light according to Einstein's theory of relativity. Dr. M. Hassab El Naby<sup>91[91]</sup> adds that according to Einstein "the speed of light is an absolute constant", while time and place are relative. This fact is mentioned in the Holy Qur'an and is a miraculous confirmation of the theory of relativity.

تَعْرُجُ الْمَلَائِكَةُ وَالرُّوحُ إِلَيْهِ فِي يَوْمٍ كَانَ مِقْدَارُهُ خَمْسِينَ أَلْفَ سَنَةٍ ﴿٤﴾

To Him the angels and the spirit mount up in a day  
whereof the measure is fifty thousand years.  
Chapter 70 verse 4

In this verse God mentions another speed which is fifty times the speed of light, namely the speed of "angels and the spirit". Miraculously, this verse is void of the words "of your counting", which is a clear indication that we will never reach this speed because it is beyond our modest means.

What is interesting is that God states that the speed of angels varies:

الْحَمْدُ لِلَّهِ فَاطِرِ السَّمَوَاتِ وَالْأَرْضِ جَاعِلِ الْمَلَائِكَةِ رُسُلًا أُولِي  
أَجْنِحَةٍ مَّثْنَى وَثُلَاثَ وَرُبْعٍ يَزِيدُ فِي الْخَلْقِ مَا يَشَاءُ إِنَّ اللَّهَ عَلَى كُلِّ  
شَيْءٍ قَدِيرٌ

Praise belongs to God, originator of heavens, and earth  
who appointed the angels to be messengers  
having wings two, three and four,  
increasing creation as He wills  
surely God is powerful over everything  
Chapter 35 verse 1

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Dr. M. Hassab El Naby says in his book:

Einstein's work in relativity allows for the existence of slower-than-light particles (called tardyon) such as people, atoms positrons, as well as hypothetical faster than light particles (called tachyons). No one has ever seen a tachyon which must have an imaginary proper mass! Tachyons travel with infinite speed (in no time!). Any process involving tachyons can be viewed in such a way that effect happens before the causes!!!<sup>92[92]</sup>

He gives us a very indicative illustration from the Holy Qur'an, above the speed of light in chapter 27 verses 38 – 40, we read.

قَالَ يَا أَيُّهَا الْمَلَأُوا أَيُّكُمْ يَأْتِينِي بِعَرْشِهَا قَبْلَ أَنْ يَأْتُونِي مُسْلِمِينَ  
قَالَ عَفَرْتُ مِّنَ الْجِنِّ أَنَا ءَانِيكَ بِهِ قَبْلَ أَنْ تَقُومَ مِن مَّقَامِكَ وَإِنِّي

92[92] "The Glorious Qur'an and Modern Science" By Dr. M. Hassab El Naby.

عَلَيْهِ لَقَوَىٰ أَمِينٌ

قَالَ الَّذِي عِنْدَهُ عِلْمٌ مِّنَ الْكِتَابِ أَنَا آتِيكَ  
 بِهِ قَبْلَ أَنْ يَرْتَدَّ إِلَيْكَ طَرْفُكَ فَلَمَّا رآه مُسْتَقِرًّا عِنْدَهُ قَالَ هَذَا  
 مِن فَضْلِ رَبِّي لِيَبْلُوَنِي أَأَشْكُرُ أَمْ أَكْفُرُ وَمَن شَكَرَ فَإِنَّمَا يَشْكُرُ  
 لِنَفْسِهِ وَمَن كَفَرَ فَإِنَّ رَبِّي غَنِيٌّ كَرِيمٌ

He said, "O council, which one of you will bring me her throne, before they come to me in surrender?" An efreet of the jinns said "I will bring it to thee, before thou risest from thy place, I have strength for it and I am trusty." Said he who possessed knowledge of the Book, "I will bring it to thee, before ever thy glance returns to thee". Then, when he saw it settled before him, he said. "This is of my Lord's bounty that He may try me, whether I am thankful or ungrateful".

This interesting story is form the story of Solomon and the Queen of Sheba "may hint at a velocity faster than light."

Dr. Yehya Said El Mahgary in his book "Qur'anic Verses in the Light of Science," completes the picture which Dr. M. Hassab El Naby started.

He says that matter and energy are two faces of the same coin. That is to say matter could be transformed into energy, and energy into matter. Man has partly succeeded in transforming matter into energy and vice versa. Yet complete control of such a process is still limited and in its first stage of development.

To achieve advanced, scientific progress in transforming matter into energy and energy into matter requires highly sophisticated technical equipment. The main difficulty lies in the exact rearrangement of particles and atoms into their former image. If man one day succeeds in such a process, radical changes will occur in his life. As a result the matter that has been transformed into energy could be sent at light speed (or faster) on

microwaves to any place and then transform it back into matter!!! So, we might be able to send, for example, a whole house to any place on earth or even to any planet in a few seconds!!!

If we analyze the story of the throne of the Queen of Sheba, we notice that there are two types of jinns. An ordinary jinn who offers to bring the throne to Solomon "before thou risest from thy place". The other jinn" who possessed knowledge of the Book" ie a more learned one, ie a scientist, he offers to "..... Bring it to thee, before even thy glance returns to thee".

Dr. El Mahgary says that the logical interpretation of what that scientist jinn made, was that he first transformed the throne into a kind of energy which could have been something like electrical or light power which could be sent through electromagnetic waves. And because the speed of scattered magnetic waves is the same as the speed of light ie 300.000 kilometer per second, it arrived at Solomon in less than a second. The last step was that he transformed this energy into matter in exactly its former condition ie every atom returned accurately to its former condition.

We notice that the scientist jinn had succeeded, more than two thousand years ago, in what we have failed in the twenty first century. Man could not up till now control properly and successfully such a complicated process. This does not mean that this process is a myth, but it means that scientists jinns have greatly surpassed us in the field of space science and space travel. Their success in this field may be because they have the advantage of being made of fire i.e. energy, while we are made of matter. In chapter 72, they say:

And we stretched towards heaven, but we  
found it filled with terrible guards and  
meteors.

We would sit there on seats to hear, but  
any listening finds a meteor in wait for him.

From what is written here and elsewhere in this book, a very far-fetched idea came to my mind, which could be a reality in future. We all know that quails emigrate in autumn from Europe to the African shores and Sinai, and return to Europe in spring.

Such fragile birds could not have crossed the Mediterranean Sea, flying for days without food, water or even rest. Scientists discovered the mystery of such strenuous trips. They discovered that there are air current routes coming from Europe in autumn, and others going back in spring. These intelligent small birds made use of these routes. They know very well how to find them and make use of them. These air current routes carry these birds in a very short time and take them to their warm destinations without much effort.

By analogy there must be routes or passages similar to these in space. Hence it is our duty to find them and use them in space travel, especially if they would coast almost nothing.

Yet, the problem of man's ability to bear such very high speed remains. So, if scientists could solve this very difficult and complicated problem, the trip could be done in no time and with minimum expenses!!!



On the relativity of time, Dr. El Fandy tackles it from another angle. He says: in his book "On Cosmic Verses in the Holy Qur'an"

....we notice that stars or planets do not complete their revolution around the sun at equal intervals. The length of the year on the earth- as it was stated- differs completely than on Mars, Mercury, Venus, Jupiter, etc. there may be other planets which follow other suns which complete their revolution around their suns in thousands of years known in our planet"

He goes on adding, in his book "Islam and Science" book VI, that

the Measurement of time should differ from one planet to another, which means that time is relative Taking the earth's common year as a unit, the following table gives the duration of one year on the different planets of our solar system expressed in solar days or in years.

Planet	Duration of one year Expressed in solar days or years	
	Mercury	88
Venus	225	Days
Earth	1	Year
Mars	1.88	Years
Jupiter	11.9	Years
Saturn	29.5	Years
Uranus	84	Years
Neptune	164.8	Years
Pluto	250	Years

Hence, do you not agree with me that:

وَمَا يَعْلَمُ تَأْوِيلَهُ إِلَّا اللَّهُ

وَالرَّاسِخُونَ فِي الْعِلْمِ يَقُولُونَ ءَامَنَّا بِهِ ۗ كُلٌّ مِّنْ عِنْدِ رَبِّنَا وَمَا يَذَّكَّرُ

إِلَّا أُولُو الْأَلْبَابِ

and none knows its interpretation, save only God. and those firmly rooted in knowledge say, "we believe in it; all is from our lord"; yet none remembers, but men possessed of minds.

Chapter 3 verse 7

## Chapter II

- 
- **The Miraculous use of Numbers in the Holy Qur'an .**

The miraculous nature of the use of numbers in the Holy Qur'an is capable of convincing any stubborn nature, especially if we, bear in mind that the Holy Qur'an was inspired in a period of over twenty years – Hence, the most calculating mind could not have kept this balance over such a long period. Therefore, it must have come from God the All- Knowing the All- Merciful.

This heavenly balance could not be a mere coincidence, therefore we can say that this phenomenon is but one of God's great signs.

Abd El Razzak Nofal covered this Holy sign in three volumes "the Miraculous use of Numbers in the Holy Qur'an". He makes it clear that certain words are equally mentioned, in spite of the fact that they are widely spread in the various chapters of the Holy Qur'an. I will give you as a specimen a limited number of them:

- 1) This "world" and "the other world" are equally mentioned – 115 times- in spite of the fact that in many cases they are not mentioned in the same chapter.
- 2) "Angels" and "devils" are equally mentioned 68 times, while their derivatives are also equally mentioned 20 times each, this makes a total of 88 times.
- 3) Human "life" and "death and their derivatives are equally mentioned 145 times each.
- 4) "Sight" and "insight" each is mentioned 148 times, which is equal to the same number of times that the "heart" is mentioned.
- 5) "Good deeds" and "evil deeds" with their derivatives are equally mentioned 167 times each.
- 6) "Hell" and "punishment" are equally mentioned 26 times each.
- 7) "Knowledge" and "learning" with their derivatives are equally mentioned 811 times, which is the same number that the word "faith" and its derivatives are each mentioned. This fact shows to what extent Islam values knowledge and learning, which are equal to "faith".
- 8) What is really amazing is that the "Merciful" is mentioned 57 times, while the "Compassionate" is mentioned 114 times which is the number of chapters of the Holy Qur'an.
- 9) It is very strange that in the Holy Qur'an, "inspiration", "Islam", and "resurrection" with their derivatives are mentioned – 70 times each-
- 10) "Magic" and "infatuation" are each mentioned 60 times; as if God wants to attract our attention to the similarity of the effect of both.
- 11) "Fire" and its derivatives and "heathen" are each mentioned 154 times.
- 12) "Fasting" and "Patience" are mentioned in the Holy Qur'an in equal numbers.
- 13) "Brain" and "light" are equally mentioned 49 times each.
- 14) "Love" and "obedience" with all their derivatives are mentioned 83 times each.
- 15) "Generosity" and "reward" are mentioned 20 times each.
- 16) "Temptation" and "sin" are both mentioned 22 times each.
- 17) "Forgiveness" and its derivatives are mentioned 234 times which is double the number of times that the word "Punishment" with all its derivatives is mentioned. This shows God's bounty and compassion towards His creatures.

18) The word "month" is mentioned 12 times, while the word "day" is mentioned 365 times!!!

19) One of the most significant signs in the Holy Qur'an is the use of numbers in the chapter "The cave", where God says:

And they tarried in the cave three hundred years,  
and to that they added nine more.

Dr. El Fandy comments on this verse saying:

This verse miraculously transfers 300 solar years exactly to 309 lunar years!!!

In the light of the recent careful astronomical measurements and exact estimates, it became evident that:

1)The average duration of the lunar months 29.550329 days.

2)One solar year equals 365.2411 days, so that the total number of days in 300 solar years is

300 x 365.2422 = 109572.66 days, and the total number of days in 309 lunar years is

12 x 309 x 29.550329 = 109572.66 days.<sup>93[93]</sup>

This balance and numerical co. ordination could not have occurred by chance, but they must have been coordinated by the Great Creator; and they surely have a meaning or certain significances, some of which we have pointed out.

What kind of human power, or what electronic mind could have placed such equal numbers of words in similar and contradictory themes, and then spread them out in the different verses of the Holy Qur'an, and in the most perfect way?

Perfect balance and minute co-ordination is what characterizes all the creation of God in the universe and in Man, the Holy Qur'an reflects this extremely accurate system as if God wants to tell us: these are My words and that is my creation.

Nobody could deny this miraculous phenomenon, because it deals with numbers and numbers always have one meaning i.e. the whole truth. It is a clear evidence of the truthfulness of what the illiterate prophet Mohammed had said, and that the Holy Qur'an is but the true inspiration from God.

## Chapter III

### • • ATOMS

Dr. El – Fandy in "Islam and Science", book III says:

The atom is the smallest particle of matter which can exist alone or enter into chemical reactions.....A small drop of liquid water may contain ten thousand billions of atoms, so that atoms are invisible by the naked eye.

It was believed that the "atom" was the smallest particle, and nothing was smaller in bulk or weight. But modern science has proved that, that insignificant thing which the eye cannot see is but liable to division.

Mr. Kamel Abd El-Samad in his book<sup>94[94]</sup> says that by the end of the 19<sup>th</sup> and the beginning of the 20<sup>th</sup>, centuries scientists discovered that atoms of some materials like radium and uranium possess the quality of self division, and come out of them electropositive small particles called "Alfa", as well as small electronegative particles called "Beta", rays that are called "Gamma" rays.

He goes on saying that in January 1939 scientists succeeded in breaking the "atom", German scientists in the Berlin Institute were able to split the uranium atoms into two parts and other smaller parts.

More than 1400 ago the Holy Qur'an states clearly that the atom has a weight and it could be divided. Hence we can see again that the Holy Qur'an is ahead of science. God says:

إِنَّ اللَّهَ لَا يَظْلِمُ

مِثْقَالَ ذَرَّةٍ وَإِن تَكُ حَسَنَةً يُضَعِفَهَا وَيُؤْتِ مِنْ لَدُنْهُ

أَجْرًا عَظِيمًا

Surely God shall not wrong so much as the weight of an ant and if it be a good deed<sup>95[95]</sup>

He will double it, and give from Himself mighty wage.

Chapter 4. verse 40.

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94[94] "Scientific Miracles in Islam" by Mr. M. K. Abd El-Samad.

95[95] Atom

وَمَا تَكُونُ فِي شَأْنٍ وَمَا تَتْلُوا مِنْهُ مِنْ قُرْءَانٍ  
وَلَا تَعْمَلُونَ مِنْ عَمَلٍ إِلَّا كُنَّا عَلَيْكُمْ شُهُودًا إِذْ تُفِيضُونَ  
فِيهِ وَمَا يَعْزُبُ عَنْ رَبِّكَ مِنْ مِثْقَالِ ذَرَّةٍ فِي الْأَرْضِ وَلَا فِي  
السَّمَاءِ وَلَا أَصْغَرَ مِنْ ذَلِكَ وَلَا أَكْبَرَ إِلَّا فِي كِتَابٍ مُبِينٍ ﴿٦١﴾

And not so much as the weight of an ant\* in  
earth or heaven escape from thy Lord, neither  
is aught smaller than that, or greater,  
but in a Manifest Book.

Chapter 10, verse 61

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فَمَنْ يَعْمَلْ مِثْقَالَ ذَرَّةٍ خَيْرًا

يَرَهُ ﴿٧﴾ وَمَنْ يَعْمَلْ مِثْقَالَ ذَرَّةٍ شَرًّا يَرَهُ ﴿٨﴾

And whoso has done an atom's weight of good shall see it,  
and whoso has done an atom's weight of evil shall see it  
Chapter 99

\*N.B. In the first two translations Mr. Arthur J. Arberry followed an obsolete interpretation of the word "ذرة", when men could only imagine nothing smaller than an ant. While in the third verse he correctly translates the word "ذرة" into "atom" which is the correct translation.

## Chapter IV

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- **Iron**

"وَأَنْزَلْنَا الْحَدِيدَ فِيهِ بَأْسٌ شَدِيدٌ وَمَنَافِعٌ لِلنَّاسِ"

آية 25

And we sent down iron, wherein is  
great might and many uses for men  
Chapter 56 verse 25

This verse extraordinarily reveals the scientific fact that iron is not like other minerals, inherent in our earth: but it is “sent down” from outer space just for our benefit.

Scientifically, it is impossible that iron could have been developed on earth for it needs a very high energy that much exceeds the energy on earth. No one knew about this ultra modern scientific fact except in the 20<sup>th</sup> century. So, when the Holy Qur’an says that iron is “sent down” is another palpable proof that the Holy Qur’an is but the true inspiration from the Almighty.

Dr. M. Abd El Ghafour Hasan<sup>96[96]</sup> enriches the interpretation of the “great might” of iron. He says that iron is not a power producer, but it is a power consumer, so when it appears in the core of a big star, it is considered as a sign that its reserved nuclear energy is about to cease; which is a sign of the beginning of the doomed end of the big star.

We may add that the “great might” of iron as it is used in killing man in wars, it is also a direct sign of stars’ death.

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<sup>96[96]</sup> “Book of Miracles, in the Qur’an and Sunna”, a non regular periodical book, issued by “the Committee of Scientific miracles in the Qur’an and Sunna” in the United Arab Republic.

## CONCLUSION

I hope dear reader that you have benefited from this simple attempt at showing that the Holy Qur'an is but the true word of God. This book is not written for any material gain, but for the everlasting salvation of as many people as possible.

Moreover, I want to contribute to your knowledge by stating that Islam and Muslims are not against any of God's prophets. On the contrary we consider the true

Muslim is the true Jew and the true Christian. The Holy Qur'an, the last Message from Heaven to earth, was sent by God to strengthen His prophets and to rectify what has come over their Messages by way of irreligious statements made by man.

God orders us to believe in all His prophets and books:

The messenger believes in what sent down to  
him from his Lord,  
and the believers, each one believes in God  
and His angels,  
and His Books and His Messengers; we  
make no division  
between any one of His Messengers. They say  
"We hear, and obey"  
chapter 2 verse 285

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I have given you scientific proofs that the Holy Qur'an could not have been written over 1400 years ago, unless it came from the Creator of man and the universe. God has granted us brains to think objectively without any prejudice, and this for our own benefit.

In conclusion I thank God for helping me find my way to everlasting happiness: for now nothing on earth can shake my faith.

There is nothing I can add except what God has ordered Prophet Mohammed to say:

Say "O men, the truth has come to you  
from your Lord. Whosoever is guided  
is guided only to his own gain,  
and whosoever goes astray, it is only  
to his own loss. I am not a guardian  
over you."  
Chapter 10 verse 180

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