

MAN AND UNIVERSE

Major Md. Zakaria Kamal G.

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Man and Universe

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Foreword

In this book named 'Man and Universe' the writer has discussed the creation of the mysterious universe in the light of the Holy Quran and Hadith. In course of talking of the past, present, and the future of the universe along modern scientific theories, the writer has cited many verses of the Holy Quran. The verses are likely to capture the imagination of the readers. It seems that the writer had been working on the subject for a long time. Many of the modern scientific theories have come closer to the Quranic verses. In this aspect, the writer has shown that the modern scientific theories on the creation of the universe and the related Quranic verses do not conflict. These verses were revealed to the Holy Prophet of Islam, a long time before the scientific discoveries took place!

Apparently, our knowledge and thought have not flourished much towards approaching the mystery of creation in the light of the Holy Quran and Hadith. In this field, the writer has opened a new horizon by his reasoning and judgment that will enrich the thinking pattern of many. Cosmology is one of the remarkable branches of knowledge. It is necessary for all Muslims to learn cosmology keeping the Quran and Hadith in view. It helps us understand the creation of the Universe and deepen our faith. If our next generations flourish their knowledge of the Quran and Hadith and study the mystery of creation, then many a misconception they might have had will be eliminated-religious consciousness will be enriched-hearts will be filled up with deep love for the Creator.

The writer has given arguments in favour of heaven and hell described in the Quran and Hadith in the light of science. In doing so, he has incorporated some of his personal views with which many scholars may not agree. In this connection, it is to be kept in mind that it may not be possible to explain everything within the framework of modern science. However, the efforts to understand things must continue. The most important thing is to appreciate the Quranic urges for researches and to seek the truth in the creation. This book will inspire people to investigate the mystery of creation as a concordance of the Quran and science. I appreciate the attempt of the author and wish him success.

Dr. M. Shamsher Ali
Dhaka University

Publisher's Note

On our course of publications we feel really delighted to publish a book on science particularly Cosmological Science titled '*Man and Universe*' by Major Md. Zakaria Kamal, G. Modern Cosmology has discovered a vast area of heavenly bodies that has struck the minds of the current thinkers of almost all branches of knowledge. Most of these findings are based on scientific enquiry supported by empirical evidences.

The Quran has presented before mankind the mystery of the creation of heavens and heavenly bodies. But these have been presented in a way that would inspire the thinking of the enlightened men towards the Creator of the universe- to call mankind towards the path of *Iman*. The Quran as such is not a book of science. But it has given some broad indications about many of the current scientific discoveries.

The book has tried to compare and combine the Quranic indications and modern scientific discoveries. In the light of the current findings of cosmological science, the author has tried to analyse some of the verses of the Qu'ran.

There is no doubt that the writer has laboured hard to put the subject in the current context. If the book can evoke the ideas of the modern scientists towards the Truth in the Creation as emphasized in the Holy Quran, The writer as well as the publisher will be very thankful to Allah (SWT) and consider our effort a success.

Dhaka
8 December 1998

M. Zohurul Islam FCA
Secretary General

Acknowledgments

This book specifies the destiny of the universe and mankind with the help of the Quran and modern cosmological theories.

Identifies the location of hell and *Zannat* (paradise) and unveils the relation of human being with Creator and the creation.

This book also describes how the Earth was created and how the mankind came on it.

I am grateful to the people who have helped me to write and publish this book.

I extend my grateful thanks to my brothers-Mustafa Kamal and Murtoza Shoeb who have helped me to write introductions of several articles.

In writing this book, I freely consulted the followings. I express my gratitude to the authors.

ABC of Relativity—Bertrand Russell.

The Framework of the Stars—Nigel Henbest.

The Expanding Universe—John Gribbin .

To the Edge of Eternity—John Gribbin.

Dawn of New Era—Sir Bernard Lovell.

The life and Death of Stars—Geoffray Bath.

Planet Earth—Peter Owen.

A Brief History of Time—Stephen W. Hawking.

Encyclopedia Britannica.

Scientific Indications in the Holy Quran'—Board of Researchers under chairmanship of Dr. M. Shamsher Ali.

I express my gratitude to the known and unknown scientists of the world and to the workers who had been working in different time to know, to develop and to spread the knowledge that I have used to explain the Quranic verses.

Finally, I want to specify that the Quran and the Hadiths are absolutely true and enough to build our faith (*Iman*) and guide us towards the true path.

Major Md. Zakaria Kamal, G

Man and Universe

Introduction

It is a long story of man and universe that is described in this book. According to the Holy Quran human beings are the vicegerents of Allah (God). If a human being were really a vicegerent he should have had a galaxy of his own where he would have the power of God Who he would be acting on behalf of.

Actually, on the Earth human beings are vicegerents but not yet empowered. They are in the process of development. Everybody will be resurrected on the day of final judgment. After resurrection human beings will never die. Therefore, resurrection is the real birth of each human being. After resurrection each human being will be sent to his destination as an empowered vicegerent of Allah.

The book is made very easy to understand. It is not required to be a science student to understand the book. However, if one finds difficulties one should proceed upto the end that will give a overall picture and help to understand.

To bring out the fact in light of the Quran and modern cosmological theories I had to discuss about many things. Therefore, main theme of the book given below should be borne in mind.

Main Theme of the Book

Modern cosmologists say that the universe is expanding. The Quran that was revealed to Holy Prophet Muhammad (peace be upon him) about 1400 years ago gives the same idea.

Cosmologists predict that due to gravitational pull, expansion of the universe may stop and the universe may begin to contract. The Quran also says that the universe will contract.

At the end of contracting phase, all the objects of the universe will join together. The universe will come to a state of super dense Singularity. This Singularity at the end of the universe is called Big Crunch. The Quran gives similar idea. At the same time there are many Quranic verses which indicate that the resurrection will take place at that time and the final judgment will be carried out.

The Quran says that the *zannat* (paradise) is another universe located at the outside of this universe (Parallel Univers?). *Zannat* will come near to the Big Crunch. After final judgment a part of mankind will be sent in *Zannat*.

Scientists predict that the Big Crunch will explode due to tremendous temperature and pressure. This is called Big Bang–2. A new universe will be born. The Quran gives similar idea and indicates that the new universe will be called 'hell'. People for whom hell will be decided will be scattered among the galaxies of the new universe. They will live there for ever in painful punishment.

After they are distributed among the objects of the universe and *Zannat* their real life as the vicegerents of Allah will begin with an endless time in front.

In this book there are 14 chapters. chapters are in a sequence that explain the above mentioned main theme. One chapter makes the background of knowledge to read the next. Therefore, those should be read chronologically.

CHAPTER ONE

General Appearance of The Universe

To read this book one requires some preliminary idea on the general appearance of the universe that is given in this chapter.

Solar System

The Earth, on which we live, is a planet having a shape like an orange. It is spinning on its own axis once in a day, at the same time revolving around the Sun once in a year. Like the Earth, eight other planets are also revolving around the Sun. Most of the planets have one or more moons. Other than the planets and moons there are thousands of smaller bodies (asteroids/comets) which are also revolving around the Sun. With all these the Sun is revolving around the center of the Milkyway galaxy.

Milkyway Galaxy

Stars are not haphazardly scattered throughout the universe. They remain in large groups. These groups are called galaxies. The galaxy in which our solar system lies is called Milkyway galaxy.

There are about 100 billion stars in this Milkyway galaxy system. Our Sun is a medium size yellow star among those 100 billion stars.

Other than the stars there are huge quantity of free dust and gas in the interstellar space of the Milkyway galaxy. These free dust and gas would be enough to produce another 10 billion stars. In other words, 10 percent of the matter of the Milkyway galaxy is not bound up in stars but is spread out as gas between them.

These stars, free dust and gas are scattered in a central bright hub (nucleus) and two spiral arms of the Milkyway galaxy. The whole galaxy is rotating slowly in the space like a giant Catherine wheel. Figure below shows the diagram of a spiral galaxy.



Fig 1. Diagram of a Spiral Galaxy

Average distance between two nearby stars in Milkyway galaxy is four light years (One light year is equal to 10 million million kilometers).

From edge to edge Milkyway galaxy measures one hundred thousand light years.

Solar system



Fig 2. Diagram of a Spiral Galaxy. (Side View)

The central hub is approximately twenty thousand light years in diameter.

Width of the Milkyway galaxy at the center is ten thousand light years and at the edge is two thousand light years approximately.

Our solar system lies in one of the arms of the galaxy. Distance of our solar system from the galactic center is approximately thirty two thousand light years. As the whole galaxy is rotating, our solar system is speeding at a rate of 250 k.m. per second. Despite the enormous speed the Milkyway galaxy is so huge that one complete orbit takes 250 million years.

Orientation

At night we see a long white band in the sky. It is a part of an arm of the Milkyway galaxy. It looks like a white band due to the light of innumerable stars extending in that direction. It is at a distance of 7000 light years. Our solar system and the nearby stars are located in a spur projecting from the inner edge of this arm.

By our naked eyes we can see only a few nearby stars. In a clear dark night maximum three thousand stars can be seen by naked eyes. From two hemisphere of the Earth maximum six thousands stars can be seen. Our nearest star Proxima Centuri lies at a distance of 4 light years and furthest stars which can be seen by our naked eyes lies within few hundred light years only. As we are inside the galaxy, it seems that these stars are haphazardly scattered all around the sky. From our childhood we grow an idea that the universe is composed of these visible stars and a white band. But actually the white band is a part of an arm of the Milkyway galaxy. And the visible stars including our solar system are located in a spur projecting from this arm.

Another arm towards the galactic center can be seen with a telescope from the southern hemisphere of the Earth, runs at about same distance.

However, it is difficult to get the exact structure of the Milkyway galaxy because we are inside it. By seeing other spiral galaxies scientists have got the idea of its structure.

As the whole galaxy is slowly rotating in the space, our Sun and the local stars are moving roughly in a circular orbit with almost equal speed. So, the stars we see at night, appear to be almost static. As an example, if two aircrafts are flying side by side in the same direction at a same speed, passenger of one aircraft see other aircraft static.

However, the stars seems to sweep across the sky each night due to the daily rotation of the Earth on its own axis. For another reason also stars seems to move. Stars of a part of the sky cannot be seen due to the sunlight at day. As the Earth revolve around the Sun once in a year the unseen part (part behind the Sun) gradually becomes part of the night sky and seen part (night sky) gradually goes behind the sunlight. Therefore appearance of the night sky changes from night to night. If one do not consider these apparent movements, one will find the local stars almost static.

But actually they are not static. They have motion around the center of the Milkyway galaxy. If one can go out of the Milkyway galaxy quiet a big distance, one will see that the whole galaxy is slowly rotating in space.

Other Galaxies

In 1924 an American astronomer Edwin Hubble demonstrated that our Milkyway was not the only galaxy. There are many others with vast tracts of empty space between them. There are some hundred thousand million galaxies can be seen with

modern telescopes. Milkyway is a medium size calm galaxy among those.

In a clear dark night only three galaxies can be seen without telescope. Our nearest galaxy is Andromeda that is twenty two hundred thousand light years away and faintly visible to our naked eyes (like a dot). From the southern hemisphere of the Earth two galaxies e.g. Large Magellanic Cloud and Small Magellanic Cloud are also faintly visible to our naked eyes.

With a modern telescope some hundred thousand million galaxies can be seen. Scientists predict that it is only a small fraction of total number of galaxies held in the universe. The universe is unimaginably great which no one can ever visualise.

All galaxies are not similar. Some are five times bigger than our Milkyway galaxy and some have diameter only few thousand light years. They also have different shape. Scientist Hubble classified the galaxies into four types. Those are :

- a. Elliptical galaxy
- b. Spiral galaxy
- c. Barred Spiral galaxy
- d. Irregular galaxy

Elliptical Galaxies : An elliptical galaxy is oval in shape. Some of them are three times the size of our own Milkyway galaxy. 80% of the galaxies so far invented are ellipticals e.g. NGC 205.

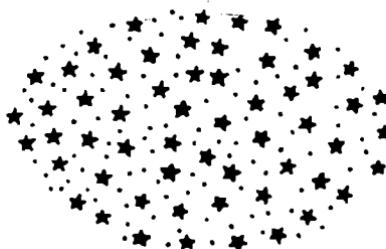


Fig 3. Diagram of an Elliptical Galaxy

Spiral Galaxies : The spirals have a structure like our own Milkyway galaxy with two arms swing out from a nucleus e.g. Milkyway galaxy, Andromeda galaxy etc.

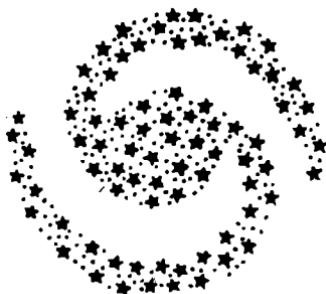


Fig 4. Diagram of a Spiral Galaxy

Barred Spiral Galaxies : A barred spiral galaxy has a bar across its center with arms beginning at the ends of the bar. e.g. NGC 1365.



Fig 5. Diagram of a Barred Spiral Galaxy

Irregular Galaxies : These galaxies have no particular shape. They are normally smaller bodies. e.g.. Large Magellanic Cloud, Small Magellanic Cloud etc.



Fig 6. Diagram of an Irregular Galaxy

Clusters

Galaxies show a distinct tendency to be collected into groups. These groups are called clusters. A single cluster may contain hundreds of galaxies, each of which may be vast star system like our own Milkyway galaxy.

Our Milkyway galaxy belongs to a cluster called the Local Group. Inside the Local Group average distance between the galaxies is about 3.3 million light years. This cluster has about 32 galaxies. There are many big clusters also each of which even contains about 10,000 galaxies; e.g. Hercules Cluster.

Cosmological Principle

The distribution of galaxies seems to be fairly uniform. The galaxies seems in one part of the sky as in another and they appear to be uniformly distributed in depth. That is, one part of universe is occupied by the same number of galaxies as any other part. Of course the galaxies are not spaced regularly like

rows of dots. They are distributed haphazardly. The idea is that the universe is uniform on a large scale is called Cosmological Principle.

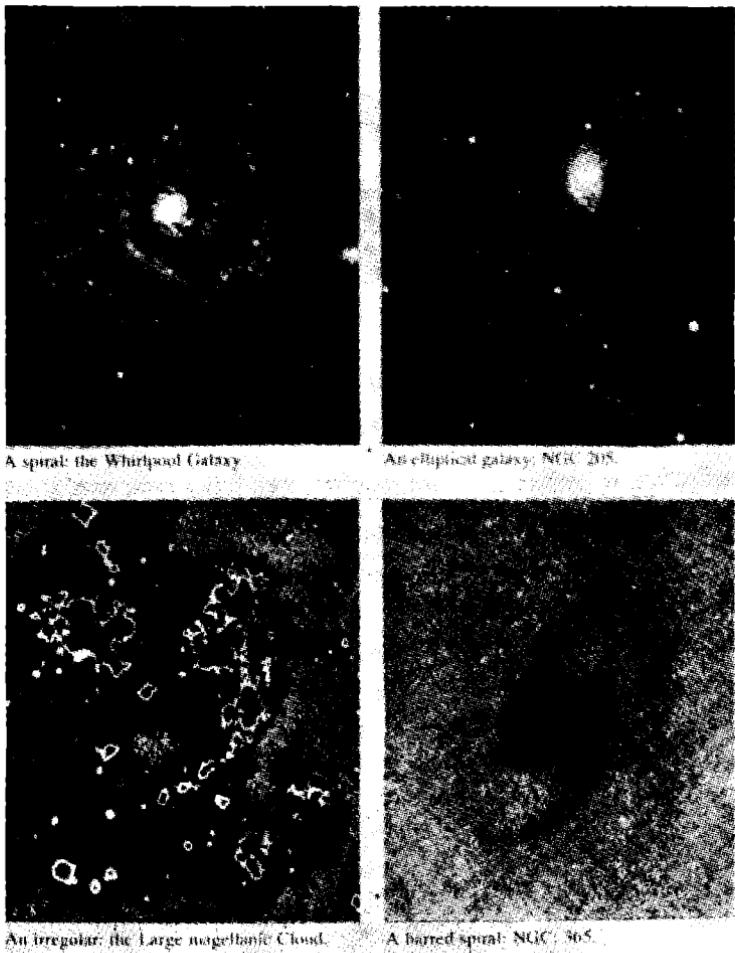


Fig 7. Different Type of Galaxy

Great Universe

Advent of great telescopes have extended the explorable horizon to far beyond our imagination. But so far a boundary could not be found beyond which there is no galaxy. The farther cosmologists are being able to observe, the more number of galaxies are being discovered. That means, so far edge of the universe could not be found in any direction. Therefore, it is not certain whether the universe is finite or infinite.

Summary

The universe is full of galaxies with vast tracts of empty space between them.

Inside a galaxy there are many stars, free gas, dust and other objects. Our solar system lies in a galaxy called Milkyway galaxy.

Galaxies show a distinct tendency to be collected into groups called Clusters.

So far, outer boundary of the universe could not be found out in any direction. Therefore scientists are not sure whether the universe is finite or infinite.

Ref:

1. *A B C of relativity* - Bertrand Russell.
2. '*The Framework of the Stars*' written by Nigel Henbest in '*The Encyclopedia of Space Travel and Astronomy*' edited by John Man.
3. *A Brief History of Time* - Stephen W Hawking.
4. *Al Quran The Challenge*- Kazi Zahan Mia.

CHAPTER TWO

Origin of the Universe

The Holy Quran says about a Creator Who created this vast universe. The Quran also describes how Creator created it. Does it match with the modern scientific observations and analyses?

It is important to know the origin of the universe to understand how the universe should evolve in future. Should the flow of time allow any resurrection? Does the universe possess any hell?

Receding Stars

At the end of 19th century a powerful new tool was harnessed to the telescope. It provided a way for astronomers to measure the velocity with which a distant object was receding. With this instrument an American scientist Edwin Hubble showed that all distant galaxies were moving straight backward.

Hubble carried out his experiments on many galaxies in different directions and in different depth. In all the cases he found that the distant galaxies were receding from our own Milkyway galaxy.

It was in 1920s when scientists observed, for the first time, that the galaxies were receding which was said in the Holy Quran about 1400 years ago.

"So verily I call to witness the stars-that recede"

—Al Quran 81 : 15

Whenever I talked to my friends about the recession of galaxies they asked me few common questions. I think, some of the readers may have the same questions. Following three paragraphs will answer those and will help in better understanding.

The stars of our Milkyway galaxy do not recede from the Earth or from the galactic centre of Milkyway. Other distant galaxies as a whole are receding from our own Milkyway galaxy.

Distance of other galaxies are so huge that we do not see them in naked eyes. Only three galaxies, which are our nearer neighbours can be seen by naked eyes. In a clear dark night they look like faint dots. Galaxies can be seen with large telescope but it cannot detect the recession. It is because of the great distance. At a large distance if an object moves towards a side can be seen easily but if it moves straight forward or backward, it seems static. Galaxies are moving straight backward. Therefore in telescopes they appear to be fixed. The recession of other galaxies can only be detected by using spectroscopy in which light emitted by those galaxies are tested and doppler shift shows how fast the object is receding.

"The speed of recession of nearby galaxies measured in this way is about 300 miles per second. This is very fast by our every day standard, but because of the great distance between the galaxies it would be millions of years before there was any noticeable change in their position."— ABC of Relativity by Bertrand Russell.

The Quran

"So verily I call to witness the stars—that recede."

-Al Quran 81 :15

Science

It was scientist Edwin Hubble who witnessed the recession of the galaxies for the first time; and introduced a new era of Astronomy.

It is to be mentioned that a few nearby galaxies are approaching towards us. It is a local phenomena and number of those galaxies is insignificant. All distant galaxies are receding.

Expanding Universe

In all directions and in all depth galaxies are receding. It indicates that the universe is expanding.

Velocity of recession is exactly proportional to their distance. Farther away the galaxies are, faster they are moving away. Nearby galaxies are receding approximately 200 to 300 miles per second. On the other hand farthest galaxies so far discovered are receding at a speed nearing to the speed of light. This observation indicates that the universe is expanding.

Universe is expanding, is just discovered in 1920's. Surprisingly, it was also stated in the Holy Quran 1400 years ago.

"With power and skill did We construct the skies (universe) : For it is We Who cause it to expand".-Al Quran 51 : 47

Rate of expansion of the universe is expressed in Hubble's constant (value to the speed of recession as related to distance).

"Hubble's constant, as it is known; it is estimated at between 50 and 100 kilometres per second per megaparsec. In other words, for every 75 km per second of measured recession velocity, a galaxy is about 1 megaparsec (3.25 million light years) away from us." – The expanding Universe by John Gribbin.

"Hubble's discovery suggests a curiously egocentric picture in which all the galaxies seemed to be receding from our own

Milkyway galaxy. So we may be inclined to think that the Milkyway is at the centre of the universe. The idea may also be wrong, because, with each galaxy moving further away from every other, produces just the same kind of picture where ever you happen to be in the universe."— The expanding Universe by John Gribbin.

However, it is more likely that the Milkyway is in the centre or very near to the centre of the universe.

Before 1920's people used to believe that the universe was static. Idea of a static universe necessitate assumption of an infinite universe to counter effect of gravitational force. Following Hubble's discovery the idea of static universe was proved to be wrong. It was found that the universe was expanding.

"Even those who realised that, Newtons theory of gravity showed that the universe could not be static, did not think to suggest that it might be expanding. Instead, they attempted to modify the theory by making the gravitational force repulsive at a very large distance. This did not significantly affect their predictions of the motions of the planets, but it allowed an infinite distribution of stars to remain in equilibrium with the attractive forces between nearby stars balanced by the repulsive force from those that were farther away. However, we now believe such an equilibrium would be unstable; if the stars in some region got only slightly nearer each other, the attractive forces between them would become stronger and dominate over the repulsive forces so that the stars would continue to fall towards each other. On the other hand, if the stars got little farther away from each other, the repulsive forces would

dominate and drive them farther apart ".— A Brief History of Time by S.W. Hawking.

It is in 20th century when scientists have discovered that the universe is expanding that was stated in the Quran about 1400 years ago.

The Quran

"With power and skill did We construct the skies : For it is We Who cause it to expand"

-Al Quran 51 : 47

Science

The universe is expanding.
—Hubble's Discovery

Mystery of Darkness

"See they not We have made the night for them to rest in and the day to give light. Verily in this are signs for any people that believe". —Al Quran 27 : 86

"The key question—a deceptively simple one was asked by a man who we might justly regard as the first cosmologist: de Chesaux. It was he who first wondered why a supposedly infinite universe full of bright stars should be dark at night. Alas for de Chesaux no one else at that time seemed able to realise the significance of his question. It was thought up again independently, by a German astronomer Willhelm Olbers in 1826. For this reason the puzzle is known "Olber's Paradox" — The Expanding Universe by John Gribbin.

Energy has no destruction. If the universe was static (not expanding) whatever were the distance of the galaxies, light

emitted by their stars would have come to the Earth at some time. Once the light of a particular galaxy had arrived, it would continue to come forever. Then, in the universe which is full of galaxies, every line of sight would end on the surface of a star and the night sky would appear uniformly as bright as the surface of an average star. However free matter in space (free dust, gas etc.) would obstruct/ absorb some light but eventually it would heat up and start glowing and would not work as obstruction anymore. Scientists calculate, if the universe was static the sky would always remain 40,000 times brighter than the sunlight at noon.

"To look at the problem, imagine thin layers, or shells of stars surrounding the Earth. The intensity of light from all stars in any one shell can easily be worked out. The distance cancel out the increase in star light. Never the less in an infinite universe, there would be an infinite number of shells so that we might guess that the universe should have an infinite bright sky. In fact though near by stars block out some of the light from further away when this is taken into account, we can say that the night sky should be 'only' as bright as the surface of an average star in total, just 40,000 times the brightness of the Sun at noon. The puzzle is not therefore, why is the sky dark at night. It is why the sky is so dark even in day time." *—The Expanding universe by John Gribbin.*

The sky should have been crammed with stars, forming a carpet far brighter than the Sun.

Nobody at that time could answer why the night was dark. The paradox was resolved after it had been discovered that the universe was expanding.

To get the solution to this problem one has to accept that the universe is expanding.

"Expansion solves the problem. The light and heat from all the objects in the sky has to spread over more thinly into the void to fill the increasing space between them. This effectively weakens the light, lowering the density of the energy of starlight-the brightness of the sky-everywhere. The faster each light source recedes, the weaker its contribution will be, and in a universe with the more distant shells receding more rapidly than those nearby, only the very nears are left making any noticeable contribution to conditions here on the Earth"— The Expanding Universe by John Gribbin.

In a static universe night could not be dark. It is only in this expanding universe where dark night can exist. In other words, only a expanding sky (full of bright stars) can be dark at night.

"What! Are you more difficult to create or the sky (Allah) has constructed it:. On high He has raised it and He has given it order and perfection. Its night He does endow with darkness. And its splendor He brings out".

-Al Quran 79 : (27-29).

If galaxies had not been receding, there would have been no night, no sunlight day; always the sky would remain 40,000 times brighter than the Sun at noon.

"So verily I call to witness the stars—that recede. Go straight and hide. And the night as it dissipates. And dawn as it breathes away the darkness".

-Al Quran 81 : (15–18)

The Quran

1. "So verily I call to witness the stars- that recede." -Al Quran 81 : 15

2. "Go straight and hide".
-Al Quran 81 :16

3. "And the night as it dissipates. And the dawn as it breathes away the darkness."

-Al Quran 81 : (17-18)

Science

1. Other galaxies are receding.

2. Since the galaxies are going straight backward they hide themselves. That means, for the recession their light become so dimmed that we cannot see them.

3. Due to this reason there is night and day. Otherwise the sky would always remain 40,000 times brighter than the Sun at noon.

Above mentioned verses clearly mention that the night is made dark by the recession of galaxies. This we know as Olber's Paradox. It is said that before Hubble's discovery scientists should have understood the expansion of the universe only by Olber's Paradox. Because it was only way to explain, why the night was dark.

The Singularity

The universe is expanding now, all the galaxies are going away from each other. That means, yesterday the galaxies were closer to each other. Day before yesterday they were more closer to each other. In this way if one looks towards the past, one will

find that at certain time all the galaxies were united. Modern scientists believe that, at the beginning of creation the universe was in a state of super dense' Singularity'.

"Of course the fact that the universe is expanding implies that at some point in the past, all the object in it were closer together. But we see very clear evidence that the universe we know today began as a super dense, super hot, 'Singularity'" – The Encyclopedia of Space Travel and Astronomy by John Man.

Expansion of the universe started from a great original explosion.

"For, as many astronomers were quick to see, if the universe is expanding now,then it must have started from some great original explosion. This is the Big Bang model of the universe."

–The Expanding universe by John Gribbin.

In 20th century scientists could reach to the idea that all the objects of the universe were joined together at the beginning of creation. This was said in the Holy Quran about 1400 years ago.

"Do not the unbelievers see that the skies and the lands were joined together (as one unit of creation) before we clove them asunder" -Al Quran 21 : 30.

Separation of galaxies and rate of expansion indicates that the universe came into existence 10,000 to 12,000 million years ago.

"By timing the expansion of universe, we can now say that it came into existence no longer than 20,000 million years ago in a monumental fire ball that provided raw material from which galaxies, stars and planets are still formed. We see around us the effect of that violent birth. The galaxies as we know from studying energetic dense quaser like 3c 273 are fleeing from us

at speed up to 80 percent of the speed of light." —The Encyclopedia of Space Travel and Astronomy by John Man.

The Quran

"Do not the unbelievers see that the skies and lands (universe) were joined together (as one unit of creation) before we clove them asunder."

-Al Quran 21 : 30

Science

The universe is expanding now which implies that at some time in the past, all the objects in it were joined together. And the expansion began from a great original explosion.

'Singularity' is a scientific term. It has its scientific definition. It is a point in space time at which the space time curvature becomes infinite. The verse may not exactly indicate a state of 'Singularity'. It indicates a state when universe was very small and all the objects of the universe were joined together.

Initial Radiation

At the beginning all the matter of the universe were at the same place. How that huge quantity of matter was created? What was its condition at initial stage? Recent discovery of 'Background Radio Noise' has enable the scientists to explain the initial state of the universe.

In 1964 Arno Penzias and Robert Wilson, discovered a faint radio hiss, a universal background, coming from all direction in space.

In 1969 they heard, about Princeton University theorist P. J. E. Peebles, who had done some calculations predicting that the Big Bang origin of the universe should have left a residue of radionoise, detectable today as radiation, with a temperature not

more than 10 degree K. This calculation proves that the radio hiss which was detected by Arno Penzias and Robert Wilson was the echo of Big Bang. Now this universal radiation is called 'Background Radio Noise'. Arno Penzias and Robert Wilson were awarded Nobel Prize for their work.

This Background Radio Noise shows that the temperature of the universe is 2.7 degree K at present. Definitely it was much less than 10 degree K which P.J.E. Peeble predicted.

So, at present temperature of the universe is 2.7 degree K. The more contract the universe was, the more was the temperature. In this way if we go towards the past, when Big Bang occurred, the temperature was enormous (10^{32} degree Kelvin). At such temperature matter can not exist. It was in the form of radiation. As the universe was expanding, temperature reduced and radiation turned into matter.

"Pick up the story from the time just after the beginning when the temperature of the fireball was a million million degrees. At such temperature, particles of matter such as protons and electrons interacted continuously with their sub atomic mirror image-their antiparticle equivalent-and with the high temperature (that is highly energetic) radiation background in a maelstrom of reactions. All the while, as the seconds passed, radiation was being turned into matter and matter into radiation"—To the Edge of Eternity by John Gribbin.

So, we find, from the radiation all the matter of this universe were created. It was said by Prophet Muhammad (peace be upon him) about 1400 years ago to one of his followers named Zaber.

(What Prophet Muhammad said are called 'Hadith'. Many Hadiths are still recorded in black and white.)

Hadith : Prophet Muhammad (sm) said, "Oh Zaber, it is the light of your prophet which Allah (God) created first and by that light *Arsh*, *Kurshi*, 'skies and lands and every thing inside it' were created". -*Bokhari Sharif* (a book of Hadith).

In another Hadith it is narrated,

"Allah by a part of His light created me and by my light the 'skies and lands and every thing inside it' were created." –Hadith.

According to Islamic thought, Allah separated a part of His light and named it Muhammad. Soul of Prophet Muhammad (sm) was also created. Therefore, Muhammad became the first creature. From that light every thing was created. Much of the light named Muhammad was exhausted due to the creation of the universe. A very minor part of light was retained with the soul of Muhammad. It was preserved by Allah and Prophet Muhammad (sm) was born at Mecca in 570 AD as a normal human being. This Hadith clearly says, everything in the universe were created out of light.

From Einstein's equation $E = mc^2$ we know, how much energy will be obtained if an amount of matter is completely transformed into energy. Theoretically, there is no difference between matter and energy; one can be transformed into another (Light is a kind of energy).

Hadith

"Oh Zaber, it is the light of your Prophet which Allah created first and by that light Arash, Kurshi, 'skies and lands and every thing inside it' were created."

-Bokhari Sharif.

"Allah by a part of His light created me and by my light the 'skies and lands and every thing inside it' were created".

-Hadith

Science

There is no difference between matter and energy. One can be transformed into another.

-Einstein

At the beginning of creation radiation turned into matter.

Creation of Smoke (Hydrogen & Helium)

At the beginning of creation radiation turned into matter. Energy turned into hydrogen and helium.

"The primordial fireball (A state of the universe less than million years after the BigBang) contained reactions which led to the present distribution of hydrogen and helium 75% and 25% respectively a balance that explains the evolution of star. Now, very small changes in the nature of the primordial fireball would have had an immense effect on the universe. If certain atomic forces had been only slightly greater, then all the hydrogen would have become an isotope of helium and no long lived stars could exist as they do at the present. They would have been explosive. Stars would have formed, but they would have used up all their energy in a very short time. There would have been

no stars like the Sun, which gives output of energy for thousands of millions of years" – Dawn of A New Era by Sir Bernard Lovell.

Stars of early universe were mainly composed of those two elements. A star can form only by hydrogen and helium. Other elements were created in the stars due to fission reaction.

So, we find, it was hydrogen and helium by which the early universe came into existence. This was also said in the Quran.

"Moreover He put His attention to sky, and it had been smoke" – Al Quran 41 : 11.

The Quran

"Moreover He put His attention to sky and it had been smoke."

-Al Quran 41 : 11

Science

At the beginning of creation radiation turned into hydrogen and helium. From that smoke galaxies formed.

Concentration of Gas

Gas which was created after the Big Bang concentrated into large clouds. Each cloud of gas turned into a galaxy. How cloud of gas as big as galaxies could concentrate is yet to be known.

"In a perfectly uniform universe, there is no way in which large concentration of gas could ever occur; indeed it is quite difficult to explain how concentration of matter as big as the galaxies could have formed in time since the Big Bang, no more than 20,000 million of years. How this happened is not known, but it is straight forward to calculate how a galaxy would form, once these clouds of gas, held together by gravity, and

containing enough material to form thousands of millions of stars"-To the Edge of Eternity by John Gribbin.

"The standard picture of galaxy formation envisage to gas collapsing first into a roughly elliptical shape under the influence of gravity, with stars forming out of irregularities in the collapsing cloud. At first large hot stars, composed just of hydrogen and helium, will form in young galaxy, run through their life cycle quickly and explode, scattering heavier elements into intersteller medium. From these materials, 'second generation' stars can form. -To the Edge of Eternity by John Gribbin.

We find, after gas concentrated into large clouds, formation of galaxies was a matter of time only. But how the gas concentrated into large clouds is yet known to be. Indication in this regard has been given in the Quran, is described below.

The Quran

"More over He put His attention to the sky, And it had been smoke: He said to it and to the land "Come ye together, willingly or unwillingly". They said, we do come in willing obedience. So, He completed them as seven skies in two days....."

-Al Quran 41 : (ll-12)

Science

In a perfectly uniform universe, there is no way in which large concentrations of matter as big as galaxies could have occurred. How it happened is not known.

The Quran indicates that the space (sky) of the new born universe was made (curved) into seven spherical layers (seven skies). Probably, then as the skies had been expanding the gas concentrated into large clouds.

After the Big Bang only hydrogen and helium were created. But in this verse the Quran mentions that there was land in the new universe. Probably with helium some heavier elements like carbon, silicon etc. were also created which is being called 'land' in this verse. Molecules of heavier elements were scattered in the smoke.

Laws of Nature

Universe started from a Singularity. Singularity was an extraordinary state of the universe.

"At the Singularity, general relativity and all other physical laws would break down: one couldn't predict what will come out of the Singularity".—A Brief History of Time by S.W. Hawking.

"Science seem to have uncovered a set of laws that, with in the limits set by the uncertainty principle, tells us how the universe will develop with time, if we know its state at any one time. These laws may have originally been decreed by God, but it appears that He has since left the universe to evolve according to them and does not now intervene in it". —A Brief History of Time by S.W. Hawking.

Laws at the Singularity were different. All physical laws and laws of the nature might have been decreed by God at a later stage of the universe.

"So We completed them as seven skies in two days and
He assigned to each sky Its duty and command".-Al
Quran 41 : 12

Duty and Command (laws of the nature) were decreed later.

Time Scale

"The primordial fireball contained the reactions which led to the present distribution of hydrogen and helium 75% and 25% respectively a balance that explains the evolution of stars. Very small changes in the nature of the primordial fireball would have had an immense effect on the universe. If certain atomic forces had been only slightly greater, then all the hydrogen would have become an isotope of helium and no long lived stars could exist as they do at present. They would have been explosive. Stars would have formed but they would have used up all their energy in a very short time. There would have been no stars like the Sun, which give an output of energy for thousands of millions of years. It is only with the stability on this time scale that life can evolve. If things had been just a little bit different at the beginning, therefore, there could have been no life, and the universe would be unknowable".— Dawn of a New Era by Sir Bernard Lovell.

"There is another extraordinary feature pointed out by Stephen Hawking of Cambridge in 1973. If, in the primordial fireball, the expansion of the universe had differed by only one part in a million millionth from what it actually was, there would have been no possibility of the universe existing as we know it now. If the universe had expanded one million millionth part faster, then all the material in the universe would have dispersed by now. There would have been no possibility of the gas being drawn together by gravity into stars. And if it had been a million millionth part slower, then gravitational forces would have caused the universe to collapse within the first thousand million years or so of its existence. Again, there would have been no long lived stars and no life".— Dawn of a New Era by Sir Bernard Lovell.

"These things are to me immensely strange. Is it not extraordinary that the possibility of talking here this afternoon

depends on events which were very narrowly determined over 10,000 million years ago in the very earliest moments of the universe?" – Dawn of a New Era by Sir Bernard Lovell"

It is the only time scale through which such an universe can evolve which have star like the Sun, planet like the Earth and can produce creature like us.

Prophet Muhammad (sm) said, "Allah says, children of Adam hurts Me. They inveigh against 'Time.' Though I am the 'Time'. All power is in my hand. I change the day and night"-*Bukhari Sharif*.

Summary

The creation of the universe started from a Big Bang when radiation turned into matter. Initially 75% hydrogen and 25% helium were created. With those matter galaxies were formed. Since the universe started through an original explosion - it is still expanding. All the galaxies are receding from our Milkyway galaxy.

Science

1. At the beginning of creation, radiation turned into matter.

The Quran/Hadith

1. "Oh Zaber it is the light of your prophet which Allah created first, and by that light Arash, Kurshi, 'skies and lands and every thing inside it' were created" -*Bukhari Sharif*. In another Hadith it is said: "Allah by a part of His light created me and by my light the 'skies and lands and every thing inside it' were created". -*Hadith*.

2. After the Big Bang hydrogen and helium were created. Galaxies formed by those smoke. Other elements were created inside the stars at later stage.

3. In 1920's scientist Edwin Hubble observed that the galaxies were receding.

4. Since galaxies are receding, their light is dimmed. Otherwise the sky would be 40,000 times brighter than the Sun at noon. There would be no night. It would be dazzling bright day all the time.

5. After the discovery of the recession of galaxies, scientists could understand that the universe had been expanding.

6. When scientist found that the universe had been expanding, they could understand that at the beginning the universe was in a state of super dense 'singularity' and the expansion started through an original explosion.

2. "More over He put His attention to sky, and it had been smoke."

-Al Quran 41 : 11

3. "So verily I call to witness the stars that recede".

-Al Quran 81 : 15.

4. "So verily I call to witness the stars - that recede. Go straight and hide. And the night as it dissipates. And the dawn as it breathes away the darkness."

-Al Quran 81 :(15-18).

5. "With Power and skill did We construct the skies and made it expanding".

-Al Quran 51 : 47.

6. "Do not the unbelievers see that the 'skies and lands' were joined together (as one unit of creation) before We clove them asunder".

-Al Quran 21 : 30.

Conclusion

Theories are always being changed to account for new observation.

"There may be a large number of models of the universe with different initial conditions that all obeys the laws. There ought to be some principal that picks out one initial state, and hence one model, to represent our universe"— A Brief History of Time by Stephen W. Hawking.

There are number of theories those explain the creation of the universe. The theories mainly differs in explaining the initial state of the universe. To explain the Quranic verses I have mainly used the theory which is generally accepted. The theory says that the universe originated from a Singularity that had zero size. All the matter of the universe was in that Singularity. Therefore, its density was infinite. Matter cannot exist at that state, it was in the form of radiation. Therefore, the Singularity was infinitely hot. As the universe continued to expand and the temperature to drop, radiation turned into matter.

But there are other well accepted theories also that explain the initial state of the universe. It do not talk about a Singularity. It says that the universe originated from a false vacuum. It was full of virtual particles (a particle that can never be directly detected, but whose existence does have measurable effects). The 'false vacuum' was probably smaller than a proton. It started expansion at a increasing rate (at present the universe is expanding at a decreasing rate). In a fraction of a second the radius of the universe increased by a million million million million times.

Matter was created out of positive energy and gravitational field with negative energy. If they cancel each other total will again be zero.

There may be many theories. One day scientists may even say that there was no Singularity, no false vacuum; universe originated from something totally different. For that one should not think that the Quran has given wrong idea. I have used the Big Bang model to explain the Quranic verses because it is widely known and widely accepted. If the theory changes, one should see what all have changed. Has anything changed about which the Quran gives the same idea? There will not be any change.

The Quran says that the universe is expanding. The Quran says the night is dark because the universe is expanding. The Quran says that the universe have been created out of smoke. These will never change.

The theories of creation mainly differ in explaining the initial condition of the universe. The Quran does not give detail description of the initial stage. It only says that at some time the universe was very small (Do not the unbelievers see that the skies and lands were joined together before we clove them asunder" -Al Quran 21 : 30). Therefore it is not likely to contradict a theory.

However, if we find that a theory contradicts with a Quranic statement we should understand that the theory is wrong. We are to wait. After some days the scientists will write another theory that will not contradict (Because everybody have to come to the truth at the end).

In explaining initial state of the universe almost all theories contradict Islamic thought. The theory I have used says that, at the beginning everything of the universe was closed in a Singularity. That means the universe had been existing for ever. The idea contradicts with Islamic thought. Therefore, I have not accepted this part of the theory. I have said that all the matter of the universe was created out of energy. And the energy was provided by Allah in the form of light. As the Hadith says: "Allah by a part of His light created me and by my light skies and lands and every thing inside it were created." The light was named Muhammad. The light was probably exposed to our known dimension through a point. To some extent the point behaved like a Singularity. From that light the universe has evolved.

Therefore, if the theory change we should not think that the Quran is wrong. If the theory contradicts, the theory must be wrong. We are to wait for further discoveries.

Allah-The Creator

The universe is unimaginably great. Human mind cannot apprehend such a vast creation. About the idols some people think of (those gods and goddesses) in unity cannot create anything.

"Say, Have ye seen 'Partners' of yours whom ye call upon besides Allah? Show me what it is they have created in the land. Or have they a share in the skies? Or have We given them a book from which they (can drive) clear (evidence)? Nay the wrongdoers promise each other nothing but delusions. It is Allah who sustains the 'skies and lands' (universe), lest they cease and if they

should fail, There is none - not one - can sustain them thereafter. Verily He is most Forbearing, oft-Forgiving"

-Al Quran 35 : (40-41)

Return to a God Who could create such a vast universe. He sustains the universe. He has no partner.

"Say, Of your 'Partners', can any originate creation And repeat it? Say, It is Allah Who originates creation and repeats it: Then how are ye deluded Away"

-Al Quran 10:34

Ref:

1. '*The Expanding Universe*' written by John Gribbin in *The Encyclopedia of Space Travel and Astronomy* edited by John Man.
2. '*To the Edge of Eternity*' written by John Gribbin in *The Encyclopedia of Space Travel and Astronomy* edited by John Man.
3. '*Dawn of New Era*' written by Sir Bernard Lovell in *The Encyclopedia of Space Travel and Astronomy* edited by John Man.
4. '*ABC of Relativity*' – Bartrand Rusel.
5. '*A Brief History of Time*' – Stephen W Hawking.
6. *Scientific Indications in the Holy Quran*-Board of Researcher under chairmanship of Dr M. Shamsher Ali.

CHAPTER THREE

Universe in the Quran

(*SAMA WATI-WAL-ARD*)

High above the ground, like a firm blue sphere, we see the sky. We now know that no such 'firm blue sphere' exist. We see like that due to the defraction of sunlight in the oxygen of the atmosphere.

Science was not so advanced during Prophet Mohammed's (sm) time, so it was likely that he would make mistake. Surprisingly, he did not make any mistake. One can go through the whole Quran and read all the Hadiths. No where it is said that the sky is blue. No where it is said that the 'firm blue sphere' is the first or innermost sky.

In the childhood we grow the idea that the sky is a firm blue sphere (as we see). When we grow old we read some books of science and come to know that no such firm blue sphere exist. Then we think, as it is discovered by modern scientists, Prophet Mohammad (sm.) must have thought that the sky was a 'firm blue sphere'. Prophet Mohammad (sm) came to the Earth to teach religion, not science. In the process of teaching religion he said something about which modern science has got deliberate works. Those have enable us to test those religious statements. Surprisingly in such vast books of religion not a single statement could be found wrong. Prophet Mohammad (sm) never gave a wrong idea. We sometimes impose some wrong ideas upon Prophet Mohammed (sm.). For example, stationary Earth and

seven firm skies is the idea of Aristotle. Every thing is made out of four elements -earth, air, fire, and water, is also an idea that was given by Aristotle. These ideas have not been given by the Quran and Hadith. In spite of that many of us think that those ideas are given by the Quran. However, the Quran also gives the idea of seven skies. But the idea is different than that we knew. It requires scientific explanation to understand what the Quran really indicates.

Idea of seven skies is also given in Hadiths. From Hadiths we know Prophet Mohammed (sm) visited all the skies. He saw Prophet Adam in the first sky, Prophet Jesus in the second sky, Prophet Moses in the sixth sky. Probably he saw them in some planet, of those skies. Prophet also said about the paths and doors of the skies. In this article I will describe the Quranic view on the skies, there I will also write about the paths and doors of the skies.

Related Words

Samawati-wal-Ard (Skies and lands) : One should not expect to get the word 'universe' in the Quran. Because the Quran is in Arabic. In the Quran a pair of words in unity indicates the universe. The words are 'Skies and lands'. (*Samawati-wal-Ard*). These two words as a whole means the 'universe'.

Samawat (Skies) : There are seven skies. That means that there are seven layers of space. Those seven layers as a whole makes complete space of the universe. Therefore, the word *samawat* also indicates the whole universe.

Samaū (Sky) : One sky. At the beginning of creation the universe was very small. At that time there was only one sky.

(Later the sky was made into seven skies). At the end the universe will be small again. At that time also there will be only one sky. In talking about these two time the word *samaū* is used in the Quran to indicate the whole universe.

Ard (Land/ lands) : In the Quran the word *ard* normally indicates the planet Earth. In some of the verses the word indicates all the matter of the universe.

Curvature of Space

Achievements of scientists in cosmology is great but still there are lot of questions having no answer. It is not known whether the universe is finite or infinite. Large scale structure of the universe is also not known.

Large scale structure of the universe might have been determined by gravitational force. According to Einstein's general theory of relativity gravitational force is not a force like other. It is felt due to the curvature of space. A star in space is like a metal ball placed on a rubber sheet; other objects tend to roll towards it down. Similarly, presence of matter creates a three dimensional curvature in space which we feel as gravity. Then, why the Moon do not come straight towards the Earth? Here fourth dimension is added (that is 'time'). In four dimensional space-time the Moon is coming straight towards the Earth, in three dimensional space we see it rotating around the Earth.

A star makes a local curvature which is felt as its gravity. At the same time all the stars in a galaxy as a whole make a curvature for the galaxy. Likewise all the galaxies in a cluster as a whole make a curvature for the cluster. In this way overall curvature of the universe might have been determined by the

distribution of galaxies in space. (Or, overall curvature of space-time might have determined the distribution of matter in the universe.)

Exactly how the universe is curved no one yet knows. If it is positively curved the space is bent round onto itself. Light travelling in a apparently straight line will return to the point from where it started. Alternatively, the universe may be negatively curved, in which space is curved as such that the light follows an open path like a parabola. The universe may be flat in which light follows a straight path.

"Space and time are now dynamic quantities : when a body moves, or a force acts, it affects the curvature of space and time-and in turn the structure of space time affects the way in which bodies moves and forces act. Space and time not only affect but also are affected by everything that happens in the universe"--A Brief History of Time by S.W. Hawking.

Probably for this reason, in the Quran, sky (space) is compared with a scroll for writings.

"On the day when we will roll up the skies like the rolling up of the scroll for writings...."

-Al Quran 23 : 108

Expansion of space indicates the direction of time also : space expands - entropy increases - time moves forward.

The Quran indicates that by curving the space-time into seven spherical layers seven skies are constructed.

Skies (*Samawat*)

Samawat means skies. There are seven skies. It means that there are seven layers of space. Those seven layers of space as a whole makes complete space of the universe.

The idea of seven skies is given in the Quran. One has to know from the Quran what it means? At certain stage of creation the universe was made into seven skies. It is described in the following verses.

The Quran

1. "Moreover He comprehended in His design the sky. And it had been smoke. He said to it and to the land: "Come ye together, willingly or unwillingly." They said, "We do come in willing obedience."

-Al Quran 41 :11

2."So He completed them as seven skies in two days ... "

-Al Quran 41 :12

Explanation

1. After the Big Bang smoke was created (hydrogen and helium). At that time there was only one sky full of smoke. Note, in this verse the Quran mention about one sky (*samau*). That sky was full of smoke.

2. Initially there was only one sky. That means space was uniform. Then the space was curved into seven spherical layers. These seven spherical layers of space are called seven skies.

3. " … and He assigned to each sky its duty and command."

-Al Quran 41: 12

3. At that time , all natural laws were determined. The universe was left to run according to the fixed natural laws. And the creation of the universe was over.

From Einstein's general theory of relativity we know matter curves space. Large scale structure of the universe might have been determined by the distribution of matter in it. In the above mentioned verses also we find, distribution of matter and the formation of seven skies were inter-related. Smoke were distributed as such that they curved the space into seven spherical layers. Those seven spherical layers of space are called seven skies. These seven skies as a whole make the complete space of the universe.

However, it might have been done in other way also. Allah has all the power. May be, at first He divided (curved) the space into seven layers. It ensured even distribution of matter throughout the universe and even expansion.

Since skies are created by curving the space, matter cannot move from one sky to another. However, there are many paths to move from one sky to another. Those paths have doors. Those paths are not like the paths on the Earth. Those doors are not like the doors of our houses. If space curvature makes a path nothing can go out of that path. And doors are guarded by angels.

One layer of space (sky) is not completely separated from another layer. Probably the curvature of space which makes the skies are like sound waves made in the air (like transverse wave). At the middle fabric of space is denser than the side. And

the edges of two adjacent skies are joined with each other. Therefore, light can travel from one sky to another.

All the skies are expanding:

"With power and skill did We construct the skies: For it is We Who cause it to expand"- Al Quran 51 : 47

The skies are expanding. That means, as a whole the universe is expanding.

Land/Lands (*Ard*)

Surface of the Earth is called land. In the same way the planet Mars, Jupiter etc. are also land. Likewise the Sun or any other star may be called lands. Therefore land is any amount of matter floating in space. It may be a planet, a star, an asteroid or a comet. Even a free dust or a molecule in space is also a land, it differs only in its size. Therefore the word '*Ard*' (lands) indicates any amount of matter in space which may be in gaseous, liquid or in solid form.

In the Quran, in some of the verses the word *ard* indicates the planet Earth and in some of the verses the word *ard* indicates all the matter of universe.

Skies and Lands (*Samawati-wal-Ard*)

One should not expect to get the word 'universe' in the Quran. Because the Quran is in Arabic. In the Quran a pair of words in unity indicates the universe. The words are 'Skies and lands'. (*Samawati-wal-Ard*). These two words as a whole means the 'universe'.

The skies (layers of the universe) are spherical.

"And built over you the seven skies"- Al Quran 79 : 12.

It means a man standing in India has seven skies over his head, at the same time a man standing in America has seven skies over his head. Therefore, skies must be spherical.

We may say, space of the whole universe is divided (curved) into seven spherical layers. These layers of space are expanding. Each layer is called a sky. Probably our Milky way including local group of galaxies lies in the innermost region of space. This innermost region of space is called first sky. The second layer (second sky) surrounds the innermost region (first sky) the way white part of a boiled egg surrounds the inner red part. In this way seventh sky is the outer most layer of space. These seven spherical expanding layers of space, as a whole makes the complete universe.

Recent Discovery

Recently through massive and painstaking efforts scientists have determined locations and distance of many galaxies. They have observed up to about 500 million light years and have made a three dimensional model. It is found that the galaxies are distributed in very wide spherical layers. Probably each of these layers is a sky.

However we may hope that one day scientists will be able to discover all the skies of the universe.

It is to be remembered that our knowledge is limited. Sky may be something totally different. In recent observations scientists have found that at the end of observable horizon, galaxies have joined with one another making a wall. May be, that is the first sky. We have to wait for further discoveries in this regard.

CHAPTER FOUR

Computer of the Universe

We believe, every thing in the universe happens according to the will of Allah that was written in *Lawh-Mahfuz* at the beginning of creation. Fate of each human being was also written at that time.

At the beginning of creation Allah wrote our fate in *Lawh-Mahfuz*. Therefore, to understand the fate, one should have some idea about the *Lawh-Mahfuz*.

Prophet (sm) said, "The thing that was created by Allah is *Lawh-Mahfuz* Allah then ordered *Lawh-Mahfuz* to write. *Lawh-Mahfuz* asked what should it write? Allah ordered to write the fate of everything. *Lawh-Mahfuz* wrote all those would happen from the beginning to the end".—*Tirmizi*.

From then, all the events of the universe runs according to the writings of *Lawh-Mahfuz*. Nothing make a deviation. There are innumerable angels working throughout the universe to ensure that all the events of the universe take place in accordance with the writings of the *Lawh-Mahfuz* .

Lawh-Mahfuz is located in Arsh.

Prophet said, "After travelling seven skies I was raised to extreme high, I reached to a smooth plain ground where only the sound of *Lawh-Mahfuz* was being heard

—Hadith.

Lawh-Mahfuz and a Computer

What is *Lawh-Mahfuz*? We find capabilities of *Lawh-Mahfuz* are similar to the capabilities of a computer. To get a clear idea we may compare *Lawh-Mahfuz* with a man made computer.

A camera can be compared with the eye of a man. Indeed eye of a man is extraordinary. In the same way in spite of similarities between the computer and *Lawh-Mahfuz*, *Lawh-Mahfuz* is much more improved, sensitive, powerful and big.

1. A computer has capability to display recorded statements, data, programmes, results etc. on the display screen.

Lawh-Mahfuz also possess the capability to display its writings :

"One day angels were listening to a version of Azazil. At that time they looked to the Arsh and saw, it was written there-'La anatallahi ana mamma ata Allah'. It means, curse of Allah will be on him, who would be disobedient." -Hadith.

This proves relevant portions of the writings are displayed at an appropriate time, which nearby angels can see and work accordingly.

2. A computer must have programme (software) to be active when gets command.

Probably *Lawh-Mahfuz* was also given such principles, commands, programmes, etc. basing on those it wrote all the future events of the universe:

Hadith : "After the creation Allah wrote in His nearest book in the Arsh - "Surely My mercy prevails over My wrath" - *Bokhari and Muslim*.

So we find *Lawh-Mahfuz* did not write every thing at its own. Some thing were written by Allah. Most probably the nearest book is the programme area of *Lawh-Mahfuz*,

"Surely My mercy prevails over My wrath" - is a command / principle of Allah given to *Lawh-Mahfuz*. In this way Allah might have had given many commands, principles, formulas, programmes etc. According to those, *Lawh-Mahfuz* wrote all future events.

3. After programming, data are given to the computer for computation. Then the computer computes at its own.

At the beginning of creation Allah created all the matter, energies and souls. Characteristics of those were also determined by Allah. Allah determined the initial state of the universe. All those data were given to *Lawh-Mahfuz*. *Lawh-Mahfuz* then wrote the future (once it was commanded).

4. After computation a computer can keep the record of the computations and can display necessary results in the screen :

Hadith : "The thing that was created by Allah is the Lawh- Mahfuz. Allah then ordered it to write. Lawh -Mahfuz asked what should it write? Allah ordered to write the fortune of all. It wrote all those would happen up to eternal time" -*Tirmizi*.

Allah ordered Lawh - Mahfuz to write the fortune of all. It wrote at its own, all those would happen up to the end. This is a capability, should be available in a computer. *Lawh Mahfuz* has kept all the writings recorded. Relevant portion of it is displayed in the screen located in Arsh which nearby angels can see and work accordingly.

5. If one wants to run a machine by a computer, the control unit of the machine must have links with the computer. It may have a link through cord. It may also be a cordless arrangement where electro-magnetic wave directly hit and activate the control unit of the machine.

The initial configuration of the universe, laws of matter and energies, characteristics of souls etc. were so determined by Allah that every thing would proceed through its desired path at its own. However, it is also written in *Lawh Mahfuz*; it controls where it is required. *Lawh-Mahfuz* controls the events by angels.

6. A computer normally bears one cursor (heart of the computer).

Probably *Lawh-Mahfuz* has two cursors.

"After writing '*La-ilaha illa Allah*'; Allah order to write '*Muhammadur Rasulallah*' -then another mouth was exposed."— Hadith.

7. Data are stored in the computer as a file. The file must have a name. Later when we wish to retrieve this file we use those name.

At the beginning of some surahs we find few alphabets which do not give any meaning. Like *Alif-Lam-Mim*, *Ta-ha* etc. I think, since Lawh- Mahfuz is a computer it used these alphabetic symbols. In this regard the Quran also gives the same indication.

"*Alif-Lam- Ra*. These are signs of the book of wisdom (*Lawh- Mahfuz*)."-Al Quran 10 : 1.

"*Ta-Sin- Mim*. These are signs of the book that makes things clear."-Al Quran 26 : (1-2).

"*Alif- Lam- Mim-Ra*. These are the signs of the book (*Lawh-Mahfuz*)."- Al Quran 13 :1.

In these *surahs*, after writing the alphabets at the beginning, it is clearly spelt out that those alphabets are the signs of *Lawh-Mahfuz*.

8. Our computers are based on two numbers - one and zero.

The Quran has a significant relation with number 19. Total number of surahs, verses etc. are all divisible by 19. This also proves that the *Lawh-Mahfuz* is a computer which may use many numbers and one of those may be 19.

Writing the Future

If an object containing a mixture of different compound and elementary particles is set in space it will gradually change (as nothing in this world can remain unchanged). Now if a suitable computer is used to predict what all changes will take place in each moment, it will be able to do so. For this the computer has to be programmed and necessary data like characteristics of matter and energies, its initial state etc. are to be given. Likewise, Allah created all the matter, forces and energies of this universe. He determined the natural laws. Determined the initial state of the universe. Accordingly He had programmed the *Lawh-Mahfuz* and ordered it to write the future.

Initial state of the universe and characteristics of matter forces and energies were as such, that it would reach to its desired goal moving through the desired path of evolution, at its own. It would not matter, whether it was written in *Lawh-Mahfuz* or not. In spite of that the future was written in *Lawh-Mahfuz* to keep a check and impose necessary control if it was required. *Lawh-Mahfuz* controls by angels.

This is not much difficult to understand. But difficulties arise when we try to understand human fate. According to Hadith, *Lawh-Mahfuz* also wrote the fate of each human being. At the beginning of creation Allah created all the souls also. At that

time *Lawh-Mahfuz* wrote the fate of each human being. Once Allah accepted the writings it has become inevitable.

Fate of Human Being

A Muslim must have few basic faiths. He must have faith on only one God. He must believe that Mohammed (sm) was the last Prophet. He must believe that resurrection will take place and final judgment will be carried out by Allah. He must believe the existence of hell and *zannat* (Paradise). He must believe fate.

We are to believe, what ever we are doing was written, what ever we gain or lose was written, our time and place of death were written and our final destination (*zannat* or hell) was written. Nothing we do without the will of Allah. At the beginning of creation when *Lawh-Mahfuz* wrote all the events of the universe, every thing were decided.

We say everything happens according to the will of Allah. Even a leaf of a tree do not fall without Allah's will. It does not mean that before falling of each leaf Allah has to will then the leaf has to fall. It is already written in *Lawh-Mahfuz*, at what time which leaf will fall. It was written according to the direction, plan and will of Allah. Now everything goes go on according to those writings. Angels ensure its strict compliance.

Allah created the universe, its matter, energies and souls in such a way that they should reach to the desired goal at its own. Normally control by angels are not required. But where there is a chance of deviation, angels are employed to keep it correct.

People generally ask, "if every thing is written we cannot avoid doing sin. Then why should we get punishment for our sin?" On the other hand practically we find no bindings on us. We find, we can do whatever we like to do. So it becomes difficult to have complete faith on the fate. To clear the doubt at first I will talk out 'Determined Destination' and 'Basis of Classification'. Then I will again describe the 'Fate of Human being'.

Determined Destination

It is quoted from the sayings of Hazrat Ali (R) that: Prophet Mohammed (sm) said, "There is none among you, whose place, either in *zannat* or in hell has not been determined. The people said to the Prophet, "In that case why we should not leave our deeds (*Amal*) on our fortune?" Prophet (sm) replied, "keep on working, A man will be given ability to do the work for which he has been created. A man of good fortune is given ability to do good works" -Bukhari and Muslim.

So we find at the beginning of creation when all the souls were created their fate were also determined. That cannot be changed. Soul is as such and it is put in such society and circumstances that the man moves through the determined path willfully.

Basis of Classification

It is already decided who will go to hell and who will go to *zannat*. What is the basis of this grouping? Allah is the owner of all. He has all the rights. It may so happen that he did not consider anything while He made this grouping. Also, it may so

happen that He considered many thing while He made this grouping. Indication in this regard is given in following Hadith. In the Hadith it is narrated :

"*Zannat* and hell argued with each other. Hell said, "arrogant and tyrant people are given to me." *Zannat* said, "what happened to me, that other than the weak, innocent and careless people nobody entered inside me?" Allah said to *zannat*, "you are My mercy, with you I award mercy to anyone I like." He said to hell, "Among my servants I punish anyone I wish, with you. You are my wrath, both of you will be filled up with them." About hell; it will not be filled-up unless Allah put His leg in it. Then it will say, "enough." Then it will be filled up and its one part will come to another part. Allah will not do anything unjust to any of His creation. About *zannat*; of course Allah will fill-up that with His servants." - *Bokhari and Muslim*.

So, from the Hadith we find, hell is decided for arrogant and tyrant souls and *zannat* is decided for weak, innocent and careless souls. But it could be one of many factors which was considered before deciding the hell or *zannat* for a soul.

It was not unjust to determine final destination according to the nature of the soul. Nature of a soul never change.

"Prophet (sm) said, if somebody says that, a hill is moved I may believe but I will never believe if somebody says that the character (nature) of a person has been changed"- Hadith.

Character of a soul may remain dormant or hidden due to education, due to the people around, due to social rules and

regulations etc. If some one gets full power and full security his original nature expose. To the family, friends and followers Halaku Khan was probably a good man. Otherwise they would not have followed him blindly. But when He obtained full power on Bagdad his real character exposed. He killed 2 million people. One day each human being will get endless life (full security) and an empire of his own. Then he will act according to his real character.

Nature of a soul never change. It only develops. It develops in the mothers womb, on the Earth, in the grave and in *Illi-in* or *Sizzin*. It will be matured before resurrection. Resurrection is the real birth of each human being. On that day he will be born with his perfect standard.

Then he will live forever either in hell or in *zannat*. Therefore, it was wise to determine final destination and develop in a way that he becomes suitable for his final destination. This development for final destination was ensured by determining the fate.

Fate of Human Being

Allah determined the nature and capabilities of each human being. The final destination of each human being was also determined by Allah. Once those information were given to *Lawh-Mahfuz* it wrote the detail description of the man's path. That is the fate of that man. As for example, once the destination of a man is known, it is not difficult to chalk out the path of that man. Now, different paths may lead to the same destination. If the nature of the man is well known, it is possible to understand, which path the man is going to follow. If we have more knowledge about that man it is also possible to predict what all

the man will be doing in the way. Now think about *Lawh-Mahfuz*. It is a computer. It knew the nature and capabilities of each soul precisely. So it could exactly predict what a man will do in a particular situation. *Lawh-Mahfuz* knew the circumstances of each person at every moment in sequence and predicted the actions of the man accordingly. So writing his fate was possible for *Lawh-Mahfuz*

While writing the fate *Lawh-Mahfuz* kept the final destination in view. That means a person destined for hell is normally given many thing to enjoy on the Earth. At the same time his soul is arranged to develop in a way that he become suitable for his final destination in the hell. That means, on the Earth the fate is like a training programme. Soul develops as we pass our days. It mature by sorrow, joy and actions of daily life.

On the Earth a human being earn knowledge and experience. After death this knowledge and experience are preserved in '*Amal-Nama*'(record of deeds) and will be returned directly to the brain of the man after resurrection (With each human being there are two angels. They are writing the deeds of the human being. Those writings are called '*Amal Nama*').

Freedom of Human Being

A man may ask, if everything is already written then why we should get punishment for our sin? To answer, I site an example : A man went to a palmist. The palmist told, very soon he would earn a lot of money through some illegal means. After few days really the man stole 10,000 dollars. Now one cannot held the palmist responsible for this offense. Even, the palmist would not have said it, the man would do the same crime. In the same way if there were no *Lawh-Mahfuz* and no written fate, we would do

the same sins which we are doing now. Man will face a final judgment. Therefore, *Lawh-Mahfuz* normally has not imposed anything on a human being. It only made definite predictions and has kept it recorded.

But there are lot of occasions when *Lawh-Mahfuz* impose its control by changing circumstances and by controlling human mind through angels. These impositions of *Lawh-Mahfuz* are required to run human society. As for example: A man who always walks through the side of the road may unmindfully go at the middle and commit accident. Often in the society situation goes beyond our control. Something happens which nobody wanted. Likewise there may be many predetermined deeds which are sinful. These are imposed by *Lawh-Mahfuz* to maintain the society and develop human soul for his destination. Sin caused due to imposed fate is likely to be excused by Allah if the man is repentant and pray to Him for mercy.

Now we may say, *Lawh-Mahfuz* wrote portion of our fate keeping in view our intention and work we will do at our own. So we do not normally understand, whether we are doing those at our own or doing as because those were written in our fate. For final judgment mainly this part will be considered.

Some times we are compelled to do something under particular circumstances. We do those against our will. Those are imposed by *Lawh-Mahfuz*. Imposed sins of this part will also be considered during final judgment if the person was not repentant.

Our fate is decided so that we are properly matured by the time the day of final judgment is very near and we can take over our responsibility either in hell or in *zannat*.

Control of *Lawh-Mahfuz*

There are lot of occasions when control of *Lawh-Mahfuz* comes into effect. But with what it controls the events? *Lawh-Mahfuz* controls the events by angels. There are innumerable angels working throughout the universe. But one has to know that the universe as a whole, do not require any control. Its set up and beginning was as such that it would run as desired. If it at all requires any control, it is only Allah Who can do it.

"It is Allah Who sustains the 'skies and lands' (universe), lest they cease and if they should fail, There is none-not one- can sustain them thereafter. Verily He is Most Forbearing, Oft-Forgiving". -Al Quran 35 : 41.

So universe as a whole cannot be controlled by any one other than Allah. It is only some regions inside the universe requires occasional or frequent control. Probably the object which requires maximum control is our Earth. This is done by angels.

To know how *Lawh-Mahfuz* controls, one may analyze how the Quran was descended. The Quran was first written in *Lawh-Mahfuz* and was preserved there.

"And verily, it is in the mother of the book (*Lawh-Mahfuz*), in Our presence, high, full of wisdom".

-Al Quran 44 : 1.

Later the Quran was bestowed upon Prophet Mohammed (sm.). Angel Zibrael carried the verses of the Quran to the Prophet (sm). Zibrael is the messenger angel of Allah. He has a lot of other angels assisting him. Here one thing is to be noted. That is the distance of the *Lawh-Mahfuz*. *Lawh-Mahfuz* is located at the outside of this universe.

"After travelling seven layers of skies (during Miraz), I was raised to extreme high. I arrived to a smooth plain

ground, where only the sound of *Lawh-Mahfuz* was being heard". —Hadith.

From this Hadith it is known that the *Lawh-Mahfuz* is located at the outside of this universe (seven skies). Now, let us consider the magnitude of the universe. The universe is so big that, something coming from *Lawh-Mahfuz*, even move at the speed of light would take millions of years to come to the Earth. But we know Zibrael used to come to the Prophet (sm) frequently. Zibrail used to bring a few verses at a time. In this way the whole Quran was descended in 23 years. How was it possible? After bringing some of the verses to the Prophet (sm) if Zibrail had to go back for the next verses to the *Lawh-Mahfuz* and come back, he would require millions of years even he moved at the speed of light. But we know Zibrael used to come frequently. To clear the doubt one has to know how the Quran was sent? The whole Quran started from the *Lawh-Mahfuz* at a particular time in the past (probably millions of years ago). It came to the first sky (nearest sky) at a particular night. The night in which the whole Quran came to the first sky is called '*Sab-i-Kadar*' (night of power). In the first sky the place where the whole Quran was preserved is called *Bitul Izzat*. Probably the *Bitul Izzat* is located on a land in the first sky. The land may be a planet or a special object. After the Quran was descended in first sky, movements of *zinns* were controlled by guard angels so that they cannot harm the Quran or know the secrets. From that place Zibrael used to bring the verses of the Quran. In this way whole Quran came to Prophet Mohammed (sm) in 23 years. It is stated in Bukhari sharif: Once Phophet (sm) asked Zibrael why

he did not come more than the number of times he had been used to come. Thereafter verse 64 of surah Maryam (Mary) was sent.

"We descend not but by the command of thy Lord : To Him belongeth what is before us, and what is behind us, and what is between : and thy Lord never doth forget"

- Al Quran 19 : 64.

In this way events on the Earth are controlled. Everything were written at the beginning of creation and orders are given accordingly. Angels are destined to materialize. They come to the Earth and in other places of the universe in sequence and whatever were written are materialized.

In every sky there is a land (a planet or a special object). All the orders of Allah and the angels assigned for a year come to those lands at a time. From those lands they move to their destination in right order. These seven lands in seven skies work as communication media for *Lawh Mahfuz*. We can envisage it as a computer network system having server in each sky. It is indicated in the following verse :

"Allah is He Who created seven skies and the lands an equivalent. Through the midst of them descends His command : That ye may know that Allah has power over all things, and that comprehends all things in knowledge". -Al Quran 65 : 12.

Every year in the 'night of power' (*Sab-i-Kadar*) all the orders of a year (for the Earth) comes in the first sky. Those comes through angels. Some where in the first sky those are preserved. From there, those comes to the Earth chronologically.

"The night of power is better than a thousands months. Therein come down the angels and the ruhhs (orders of Allah) by Allah's permission for every work"

- Al Quran 97 : (3-4)

In the first sky those are checked and some thing is increased or decreased and amended if necessary. This is done by Allah. According to Hadith Allah comes in the first sky in the 'night of power' (*Sab-i-Kadar*) and accept the prayer of the people. That is why praying for fortune is practiced in the 'night of power' (*Sab-i-Kadar*). Because, though it was written at the beginning of the creation, may be amended in the night of power (*Sab-i-Kadar*) and the year ahead may be more happy.

Body of Angel

From Hadith we know, angels are created out of light. We can not think of a creature, created out of light. But it is possible for Allah because He has decided the characteristics of matter and energies and enforced laws of the nature. When we think about angels. We think them creature like human being with a body of light or something invisible. But the angels are not like human beings. Their shape is made according to their nature of job. They cannot learn anything new. An Angel is a body of light which is given necessary knowledge from some source keeping its nature of job in view. However, there may be many big and honourable angels also who are given so much of knowledge that they do not normally require to learn new things.

We can also make body with light which can do specific works. Take the example of a man who is observing a remote controlled television. If he wants to change the channel, he has to aim the remote control transmitter towards the television and press a switch. What happens when the switch is pressed? It

produce a electromagnetic wave (light is also a kind of electromagnetic wave) that triggers the television in desired channel. We may compare the remote control transmitter with *Lawh-Mahfuz*, electromagnetic wave with angel and television with the animal or object which is controlled. Now, by the transmitter an angel is made which can change the television channel. Magnetic field of the electromagnetic wave is its soul and energy is mixed with it. The man can not use the same wave again because it goes away at the speed of light. But nothing can go out of Allah's jurisdiction. He can use the same again and again. This is an example I have sited. Actual angels must be much more complex.

In Hadith we get description of different types of angels. A particular type of angel is meant for a particular type of job. According to the nature of job their body is designed. That means all the angels are not similar in size and shape. Description of few important angels are given below.

Mikhael : Out of four prominent angels he is one. He is responsible for the distribution of food to all creatures. He also controls the rain. Probably he controls the nature of the Earth. He has many assistant angels under him.

Israfil : Among the angels Israfil is the greatest. He is holding a Surr in his mouth. Surr is like a bugle (in human sense), blowing of which will produce violent sound. The sound will generate enormous vibration in all the objects of the universe and will bring all out destruction. With the first blow of *Surr* '*Qiyamah*' will start and every thing will be destroyed (dooms day).

After a long time resurrection will take place and *Surr* will be blown for the second time. With this blow ground of *hashar* (ground of final judgment) will become plain and smooth. Due to violent sound resurrected people will be fainted. Then the *Surr* will be blown for the third time when the people will regain their sense and final judgment will begin.

Sound of the *Surr* will be very violent. Everything will start vibrating, the way sound of the thunder vibrates doors and windows. Sound of *Surr* may be as such that it will impart vibration in every thing of the universe. Gradually everything will loose their shape and at the end will turn into dust.

Question must arise, during first blow of *Surr* how sound will travel through the vast empty space. We know sound cannot pass through empty space. There will be no sound in the Moon because there is no air. Even it could move through empty space its speed is so less that it would take billions and billions of years to spread throughout the universe. Then, during first blow, how the sound of *Surr* will spread throughout the universe?

In this respect one has to know about the body of Israfil. His body is so big that his hands/wings extends up to the end of the universe.

It is narrated by Hazrat Ibne-Abbas that, Prophet (sm) said : "Among angels, Israfil was created by almighty Allah at first. Angel Israfil has four giant wings (or hands); among those, one is extended towards the east up to the end, one is extended towards the west up to the end, one is extended below and one is spread over his

head. His body is so vast that if all the water of the seven seas of the Earth is poured on his head, not a single drop will fall on his feet, all will be dried in his body”- Hadith.

According to this Hadith we can say that the body of Israfil is extended up to the end of the universe. Therefore, the sound of *Surr* may travel throughout the universe through his body in the form of light wave. (The body of angels are created out of light).

“The whole body of Israfil from the head upto the feet is covered with innumerable reddish hairs. Each hair has innumerable mouths and each mouth has innumerable tongues” –Hadith.

According to Hadith, the *Surr* is fitted in the main mouth of Israfil.

So we find, that the body of Israfil is spread throughout the universe. Throughout his body there are innumerable hairs. Each hair has innumerable mouths. Each mouth has innumerable tongues. Once he will blow the *Surr*, sound may travel through his body in the form of light wave and at the end may expose through his innumerable mouths in the form of sound wave. Sound cannot travel through empty space but once we discuss about his body we get the solution of the problem.

Again, from one end to another the universe may extend billions of light years. According to Hadith Israfil is holding the *Surr* in his main mouth. So wave produced with the *Surr*, if moves even at the speed of light, will take billions of years, to reach up to the end. The problem might have been solved by

Allah in some way. It may so happen that the *Surr* is already blown. Its wave is spreading through the body of the Israfil. At a particular time the sound will be exposed through all his mouths at a time. The body of Israfil may be as such that it delays the flow of wave to the portions of body near his main mouth and ensure exposure of sound at a time throughout the universe. When the sound will expose, destruction will begin.

Azrail : Angel Azrail collects the soul after death. According to Hadith Azrail seats at fourth sky. Infront of Azrail there is a tree. In each leave of that tree, name of a particular living creature is written. Once the time of death of a particular creature arrive, the leaf written with his name falls infront of Azrail. From then, within forty days Azrail takes away his soul. It is likely that the tree is a communication media from *Lawh-Mahfuz* to Azrail. Leaf of the tree falls down according to the command of *Lawh-Mahfuz*.

Azrail is seating at fourth sky. Once a leaf falls; to collect the soul if Azrail had to come to the Earth, he would take millions of years even he moved at the speed of light. Then how Azrail collects a soul within fourty days? To get the answer one has to know about the body of Azrail. According to Hadith, to collect the souls Azrail never leaves his seat. He has innumerable hands. The number of his hands are equal to the number of living creatures. Each hand has an eye. Azrail looks to a person seventy times a day. That means, where ever a man moves, the hand designated for him follows. Once order of death is received by Azrail, he uses the hand and collects the soul. Azrail uses the hand designated for the soul. He uses one hand for only one soul. Then the hand ceases. At the end only one hand will remain with which he will collect his own soul.

Azrail works according to the commands of *Lawh-Mahfuz*. Those commands come through a tree. With all living creatures Azrail has direct link through his hands. Therefore he do not leave his seat to collect the soul.

Zibrael : He is the messenger angel. He has many angels under him. They have wings (of light) to move from one place to another.

Rizwan : He is the in-charge of the angels in zannat.

Malek : He is the in-charge of hell.

Other Angels : Israfil, Azrail are great angels. There are many minor angels also. They perform specific tasks. Probably they receive their orders from *Sidratul Muntaha*. *Sidratul Muntaha* looks like a giant tree. Probably it has link with *Lawh-Mahfuz*. A minor angel goes to *Sidratul Muntaha* once for all. Then he moves towards his destination. During *Miraz* Prophet (sm) saw innumerable angles were falling on the *Sidratul Muntaha*. Probably once they fall on *Sidratul Muntaha* they are programmed by *Lawh-Mahfuz* to do a specific job. There are four rivers (channel in space) flowing from the foot of *Sidratul Muntaha*. Two are flowing to the world, two are flowing to the *zannat*. Angels programmed to perform its task in the world moves through the channels leading to the world. The channels may be specially made through which angels can move faster and reach to the destination in time.

Among angels many have received their orders, many will receive in future. Many have reached to the location where they

will perform their specific task, many will reach in future. After performing the specific task they return. As for example, ruin of the Samuds (People of Sodom) was decided at the beginning of the creation of the universe. At that time angels of destruction were created. At a particular time order of destruction came to those angels. Then they started for their destination, at a time when the Samuds did not even come to the Earth. At a pre designated time the Samuds came into existence. In course of time they became disobedient to Allah. At a perfect time those angels of destruction reached to the Samuds and the Samuds were destroyed. At the beginning of creation during the great planning it was written

"So the earthquake took them unaware, and they lay prostrate in their homes in the morning! -Al Quran 7 : 78

It was written by *Lawh-Mahfuz* at a time when the Earth was not even created.

This is the fate. The way it is designed, the way it is stored and the way it is executed are so great that we cannot imagine. Whatever I have written with my limited power of imagination is not at all enough and susceptible to mistakes.

Conclusion

The way everything of this universe should run due to the nature of souls, forces, energies and matter were written in the *Lawh-Mahfuz* in the form of fate. Sometimes to maintain the balance in society and nature *Lawh-Mahfuz* impose control. Everything in this universe happens according to its writings. But this is not the end. Allah is present everywhere. He knows everything. He can amend, increase, decrease or destroy anything. Or, He can create something totally new.

"Allah does know what every female does bear, by how much the wombs fall short or do exceed. Every single thing is before His sight, in proportion. He knows the unseen and that which is open : He is the Great, The most High. It is the same whether any of you conceal his speech or declare it openly; whether he lie hid by night or walk forth by day". – Al Quran 13 : (8-10)

The above mentioned verses express that the Allah knows everything. But normally He do not interfere in day to day works. If needed day to day works are controlled by *Lawh-Mahfuz* through angels which is said in the next verse of the same surah :

"For each there are (angels) in succession. Before and behind him; They guard him by command of Allah..".

– Al Quran 13 : 11.

The angels come in succession keep the person in determined fate. This keeps him away from falling into unplanned dangers.

But the writings of *Lawh-Mahfuz* is not the end. If a person try, Allay can change the fate of the person, which is said in the last part of the same verse,

".Verily never will Allah change the condition of a people until they change it themselves"–Al Quran 13 :11.

Again, can a man try if it has not been written in his fate? Yes, he cannot try. But after doing a sinful work if he repent and intend to do good works Allah may open a new good path for the man. Then, if the man move in the good path his whole fate may be changed subsequently. But character never change. For a man it is very difficult to move in a path for long, for which his character was not been designed. And nobody wants that original nature of his soul should change.

CHAPTER FIVE

The Earth and Adam

The Earth is an unique planet. It is clearly felt once we observe other planets of the solar system. As an example, we may consider the planet Mars which could be most similar to the Earth.

The Earth exhaust its interior heat through volcanoes but the planet Mars has no such system. Scientist predict if the skin of the Mars is thin, it radiates heat through its whole surface, and if the skin is thick, the planet explode after a long period of every interval.

There is no water in planet Mars. It has clouds but those are the clouds of sulfuric acid.

On the Earth, old lands has more number of craters. On the Mars craters are evenly distributed. Evenly distributed craters throughout the body of Mars shows that during last 500 million years the planet have not changed.

But, if someone list the changes took place on the Earth during this time it will be clear that with a deliberate plan the Earth has been made suitable for a creature like us.

Drifting Land

"It is He Who has spread out the land for creatures. Therein is fruit and date palms, producing spathes. Also corn, with leaves and stalk for fodder, and sweet smelling plants". -Al Quran 55 : (10-12)

The verses indicate that the land of the Earth has been spread out. The verses also indicates that Allah has spread out the land to improve the fertility. Therefore, we get enough fruit, corn and plants on the Earth.

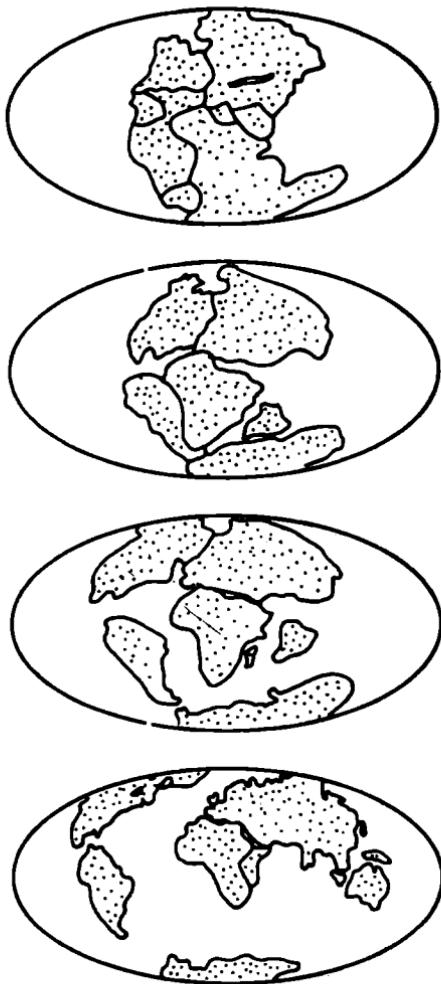


Fig 8. Continental Drift

A glance at the globe is enough to show that the continents were once joined together and have subsequently drifted apart

(note fig). The bulge of South America fit into the bight of Africa. If all the continents could be brought close, they would fit with one another well to form a single land.

This indicates that previously there was only one land on the planet Earth. Later the land had been divided into seven continents and drifted away from each other.

In 1620 British philosopher Francis Bacon noted the continental drift for the first time. Later many scientist like Alfred Wagener, Prof Henry, Frederick J Vine, Drummond Matthews worked on the subject. The theory ultimately developed is known as the 'Theory of Plate Tectonics.'

The most recent split is thought to have occurred about 40 million years ago when Australia and Antarctica separated. South America and Africa split apart when the South Atlantic ocean began to open about 135 million years ago. 200 million years ago the Atlantic, Indian, Arctic and Antarctic ocean did not exist. The Pacific however is much older and has been closing as the other oceans have opened.

If the land had not split into seven continents, the central area of that huge land would have been at a greater distance from the ocean. Then, the whole central area would have been desert due to the lack of water. The land had been split into seven continents and had drifted apart. Therefore more length of edge (of the land) has come in touch of water. Distance of the central areas of the continents from the sea have reduced. Underground water level have raised up. All these have improved the overall fertility of the Earth. We can say that, due to the continental drift the land has become more fertile. So, here we find date palms, corns and sweet smelling plants in abundant.

"And the land, moreover, hath He spread out. He draweth out there form its moisture and its pasture. And

the mountains hath He firmly fixed. For use and convenience to you and your cattle".

-Al Quran 79 : (30-33).

Mountains

"And the land We have spread out; set thereon mountains firm and immovable and produced therein all kinds of things in due balance" -Al Quran 15 : 19.

This verse indicates that the formation of mountains is related to the spread of land. From scientific description given below, we also find that many hill ranges formed due to continental drift.

The Earth's interior is divided into four prominent layers. The outermost layer is called Crust. Its width is 30 to 40 km on land and approximately 10 km at the sea bed.

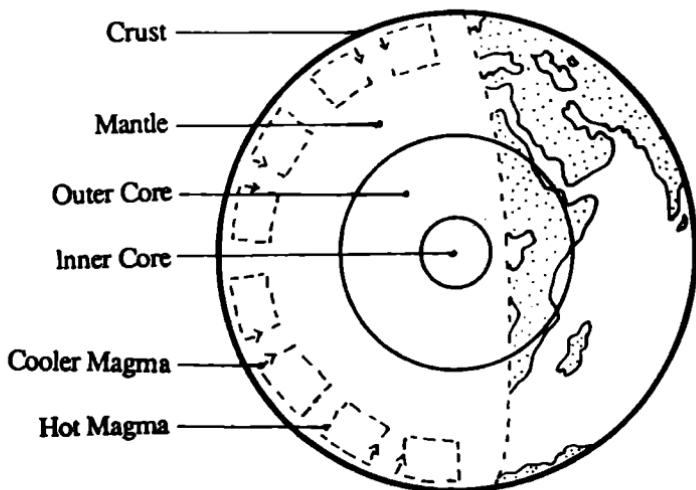


Fig 9. Earth's Interior

The layer below the Crust is called Mantle. Mantle is a mixture of minerals which are mainly compounds of the elements like oxygen, silicon, magnesium, calcium and iron.

In center, there is Core. Core is again divided into inner core and outer core. Inner core is composed of iron in solid state. Outer core is liquid iron, probably with 5% nickel.

The temperature is about 4000°C in the center of the Earth and decrease steadily towards the surface. At the surface it is about 0.06 watts per square meter. The heat flowing from the center of the Earth towards the surface causes convection current in the mantle.

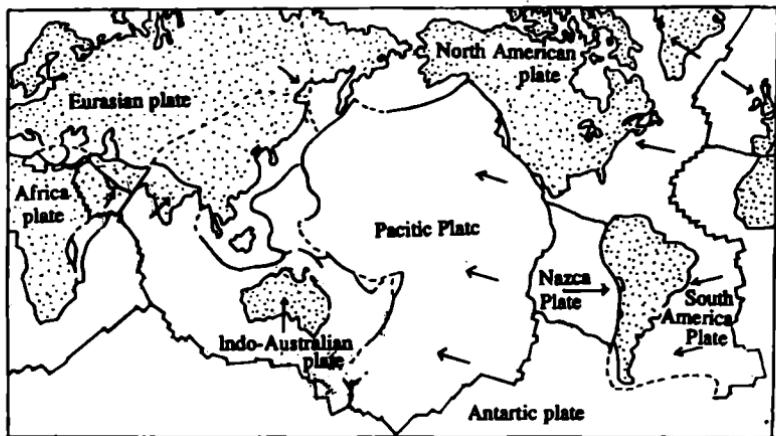


Fig 10. Continental Plates

The Earth's Mantle has a change in its properties at a depth of about 100 km. The Mantle and Crust above this depth constitute the Lithosphere. Mantle below this depth is called Asthenosphere. The Lithosphere is rigid and is broken into seven great slabs (plates) and a number of lesser ones. These plates move about on the Asthenosphere below. The plates are driven by convection current in the Asthenosphere, which

although solid, can creep at a sufficient rate for this to be possible.

As the plates move around they interact with one another along their boundaries. Therefore, plate boundary are notable for being earthquake zone. In those areas where two continental plates collide and neither is pushed under the other the plate crumple and mountain ranges form, such as the Himalayas. When one plate goes under another, it may cause volcanic eruption and form mountains e.g. Andes mountain range. In sea it forms volcanic islands.

So, from scientific theories we find, continental drift and formation of mountain ranges are closely related. In the Quran these two have come in one verse.

"And the land We have spread out, set there on mountains firm and immovable and produced therein all kinds of things in due balance" –Al Quran 15 : 19.

One must also note the last part of the verse. It mentions about a balance of matter in the Earth. If the ratio of different kinds of matter had not been correct, these unique Crust, Mantle, and Core would not form. Then the drift would not be possible. Existence of different kinds of matter in due proportion also maintain correct temperature that sustain the convection current in the Earth.

Creation of The Earth

The age of the Earth is approximately 4·6 billions years. At the beginning of the creation of the universe radiation turned into matter. Initially hydrogen and helium were created. From those elements galaxies have formed. Then question must arise : when and how the matters we find in the Earth were created? Different

kinds of matters like iron, gold, silver, carbon etc. which we find in the Earth were created inside the stars.

A star can form out of hydrogen and helium. Due to powerful gravitational pull, the star squeeze. This creates a tremendous pressure in the center of the star. Pressure in the center generates heat. This temperature and pressure initiate fission reaction in the center of the star which creates more and more heat. The heat tries to expand the star.

In one hand gravitational pull tries to squeeze the star on the other hand heat generated in the center tries to expand the star. It brings a balance. This is how a star burns for millions of years; at the same time due to fission reaction new elements are produced in the core of the stars. Hydrogen burns to helium, helium burns to carbon and oxygen, carbon and oxygen burns to silicon, silicon burns to iron. Then some of the giant stars collapse to extremely higher densities due to strong gravitational pull and explode. It is called 'super nova explosion' which produce more complicated elements. It fling out the outer layers of the star into the space scattering the elements produced in the star throughout its life. In this way different kinds of matters we find in the Earth were produced.

It is now generally believed that the Earth was formed from many such solid small particles with a temperature 200° C or less. Due to short-lived radio-active elements the Earth was quickly heated up.

"At some point, the release of energy by radio-active elements must have melted a large part of the Earth since this is the only way known for the separation of the original body of uniform composition into a core and a mantle. A similar process occurs when impure iron is melted in a steelworks and the

nonmetallic parts separate out to from a low density slag which floats to the surface. It was in this way that the primitive crust was formed."— *Planet Earth* by Peter Owen.

Short-lived radio-active elements have long since decayed.

At present temperature at the center of the Earth is 4000° C. It is believed that the long lived radio-active elements maintain this temperature. The long lived radio-active elements such as uranium, thorium and weakly radio-active potassium are still present in the Earth. It is likely that they maintain the present temperature at the interior.

Atmosphere that the Earth got during the formation was not also suitable for living creature. Due to some unknown reason that atmosphere moved away from the Earth. Present atmosphere might have been created when the Earth melted. Again that atmosphere did not have free oxygen. Therefore, was not suitable for animals. However, plants probably originated. How free oxygen was produced in atmosphere is not known. Living plant produce oxygen through photosynthesis but unless some of the products of this reactions are removed they recombine with oxygen and there is no overall change in atmospheric composition. Some of the plant material have been converted into limestone, coal, oil and other minerals leaving the free oxygen in the atmosphere but the quantity is not likely to be so much.

Same puzzling problem arise when we try to understand, where from this huge quantity of water came on the Earth. There is no water in the Moon or in the Mars. Now one has to accept that this unique planet was not a ready made home for creature like us. It was prepared for us through a process over a long period of time.

Creation of Life

The Earth was not a ready-made home for creatures like us. It was prepared through a long process of evolution. Holy Quran says that Adam and Eve were sent from paradise (*Zannat*). When Adam and Eve came to the Earth there were enough animals and plants to supply them with food and shelter. The Quran does not say that those animals and plants were also created in the *Zannat* (Paradise). Those had been created on the Earth before Adam and Eve were sent. How were those created?

In 18th century Charles Darwin, founder of the modern theory of evolution argued that organisms come about by evolution. A progression in living organisms shows that organisms evolve through eons of time from lower to higher form. Modern genetics, molecular biology and related scientific discipline has advanced the theory of biological evolution to a great extent.

Modern theory of evolution advocates that all plants and animals including human being are descended from bacteria like micro-organisms those originated more than three billion years ago.

From the theory of evolution we now know, from single cell organisms many multi-cell plants evolved . A time came when the Earth was full of plants. It made great contributions to make the Earth suitable for animals. It developed Earth's crust and probably produced free oxygen in the atmosphere.

Animals evolved from aquatic warms that lived 600,000,000 years ago. From those water borne creatures amphibians, reptiles, birds and mammals evolved. In mammals ape like creatures evolved from monkeys and at the end human being evolved from the ape like creatures.

Many people think that the theory of evolution is a blow to the religious belief. But, does the theory really contradict Islamic thought? Have we ever tried to understand what the Quran says about the creation of life on the Earth?



Figure 11 Sequence of Evolution.

"And Allah has created every animals from water : of them there are some that creep on their bellies; some that walk on two legs; and some that walk on four. Allah creates what He wills; for verily Allah has power over all things"— Al Quran 24 : 45.

This verse clearly indicates a sequence of creation that is exactly similar to the sequence of creation suggested by the theory of evolution. I will explain this verse in four parts.

1st Part of the Verse : "And Allah has created every animal from water"— This first part of the verse mention that living creatures originated in water. Scientific analysis also shows that the first single cell organisms originated in the water. From single cell organisms many multi-cell living creatures including fishes evolved. In the figure showing the sequence of evolution

first five creatures named Neurospora, Candida, Screw worm, Moth and Tuna (fish) evolved in water.

2nd Part of the Verse : “Of them there are some that creep on their bellies.”— Scientific analysis shows that, in the process of evolution some of the animals came on the land and creatures those creep on their bellies (reptiles) evolved. In the figure showing the sequence of evolution 6th and 7th creatures named Snake and Turtle creep on their bellies.

3rd Part of the Verse : “Some that walk on two legs.”—Scientific analysis shows that from the creatures those creep on their bellies, creatures those walk on two legs evolved. In the figure showing the sequence of evolution 8th, 9th, 10th, 11th and 12th creatures named Penguin, Chicken, Duck, Pigeon and Kangaroo walk on two legs.

4th Part of the Verse : “And some that walk on four. Allah creates what He wills; for verily Allah has power over all things”— Scientific analysis shows that from the creature those walk on two legs, creature those walk on four evolved. In the figure showing the sequence of evolution 13th, 14th, 15th, 16th, 17th and 18th creatures named Rabbit, Pig, Donkey, Horse, Dog and Monkey walk on four legs.

This verse says about the creation of different kinds of animals in a sequence that supports the modern theory of evolution. Modern scientists also suggests the same sequence of creation (water borne creatures—reptiles—birds—mammals). Therefore, the Quran do not contradict with the idea of biological evolution. Only about the creation of Adam and Eve the Quran gives a different idea. About Adam and Eve the Quran mentions that they were created in *Zannat* (paradise). And from *Zannat* they were descended on the Earth. About the creation of Adam and Eve I will describe later.

Why evolution : Evolution takes time. Why an omnipotent God adopted a process of evolution to create different organisms? We think, since God is omnipotent He must have had created all at a time. The Quran mention that He has power to do so.

"Verily when He intends a thing His command is 'Be' and it is" –Al Quran 36 : 82.

But the Quran does not say that Allah created this vast universe by ordering 'Be'. The Quran mentions that Allah created this universe in six days (If Allah had created this universe by ordering 'Be' it would not take six days. It would be created instantly). The verse number 82 of *surah Ya-Sin* only highlights the power of Allah. Extent of power we have on our limbs, Allah has much more power on every thing in the universe. The verse also mentions that Allah is not bounded in 'time'. Though He has taken six days to create. He could also do it in no time (by ordering 'Be').

Prophet Mohammed (sm.) said, "Allah says, children of Adam hearts me. They inveigh against 'time'. Though I am the 'time'. All power is in My hand. I change the day and night" –Bukhari Sharif.

We feel that time passes because Allah change the day and night (rotate the Earth). He expands the universe. He runs everything towards the maturity and towards a goal.

Therefore, the universe stands on a time frame for the requirement of the creature. We born, grow, learn, enjoy, mature and die. Everything happens in the universe in a particular time frame for creature like us who require to take birth, grow old and die.

However, as Allah created the universe and designed it to run in a particular time-frame, He has probably adopted a frame work of time. Probably it is different than that of our earthly time.

Allah has subjected all most all universal affairs in systems (natural system) and have bound them in a time frame. As a result it has become harmonious to our life.

First Living Creature : Scientists predict that about 3 billion years ago first living creature came into existence. Many evolutionists say that first living creature came into existence through accident.

To produce another similar creature that first living creature must have had a DNA network in her body. Scientists calculated how many accidents would be required for accidental creation of a DNA network that could ensure reproduction of another similar creature. They have found a number which is so big that so many accidents cannot take place since the creation of the Earth. One who have faith on mathematics have to believe that first living creature could not come into existence through accident.

At the same time only a DNA network do not make a living creature. Many special substances are also required, many system should exist in the body and should function in harmony. When all these are taken into consideration, only a mad man can say that the first living creature came into existence through accident.

The universe where disorder increases with time accidents can only destroy. Such a creative accident that could create a living organism could only take place due to some divine actions.

Behind the Scene : Allah do not create new matter and energies everyday. If He would do that the universe would be more complex and chances of different system failure would increase. Therefore, Allah created first creature with existing matter, with existing natural laws and by using natural instruments.

Allah uses existing matter, natural laws and systems. We cannot see Him. Scientists could not prove the existence of God. Therefore, they write first living creature came into existence through accident and others were created through evolution. Yes, it is correct that the living creatures were created through evolution. But that evolution was guided by Allah through *Lawh-Mahfuz* and angels. One can also say that first living creature came into existence through accident. But behind the scene there was God who made such accidents in the nature that could create a living organism.

In six days Allah made the Earth in a way that in course of time it became suitable for living creatures. All the future events of the universe were written in *Lawh-Mahfuz* at the beginning of creation. *Lawh-Mahfuz* monitors the universal affairs through Sidratul-Muntaha. At the Sidratul-Muntaha angels are programmed for particular task. Then they are sent for their destination.

When the Earth became suitable for life, angels were sent one after another to create first living organism and look after them and carry forward the evolution towards its final goal.

Allah created the *Lawh-Mahfuz*, created the angels and made the plan. We do not tell about *Lawh-Mahfuz* or angels. We straight say that Allah has created all creatures. He takes care of all.

Why Allah uses *Lawh-Mahfuz* and angels? Why He does not do everything by Himself? Allah is the king of the kings, full of knowledge. He knows everything. He is present everywhere. He can do anything He likes. But He is not always at our service. By creating us He has not taken the job of doing our welfare round the clock when in many occasions we remain indulged in unwanted activities. He has employed one group of servants to serve another group and everything was planned and written in *Lawh-Mahfuz* at the time of creation.

Evolution-Final Phase

The first living organism had the inborn quality of biological evolution. Therefore evolution became natural. But it did not went on exactly as Darwin argued :"as many more individuals are produced than can possibly survive"—Darwin.

Evolution was guided by *Lawh-Mahfuz* and angels towards a goal.

Then, it was a matter of time that the Earth was full of plants and animals. At the end Adam and Eve were sent form the paradise (*Zannat*).

Since publication of Darwins '*On the Origin of species by means of Natural Selection*' in 1857 and '*The Descent of Man and Selection in Relation to Sex*' in 1871 many started to believe that just from chimpanzees human being evolved. Cranial capacity (size of brain) of human being is 1450cc in average. But cranial capacity of the Chimpanzee, Orangutan, Gorilla is 325 to 659 cc only. There are big differences in pelvis (big bone at the waist), legs and face also.

Evolutionists initially used to say that due to sensitive hands brain of the apes developed. Once the brain developed they left the trees and started walking bipedally. Legs became longer and stronger. And they became human being. But such fossils could not be found which shows the sign of increasing brain in modern apes. Therefore, the idea was not proved.

Now they say that from a common ancestor (hypothetical) two branches originated. In one branch called Hominids, human being evolved after a few steps. In another branch called Pongids, chimpanzees evolved after a few steps . All the species those falls in the branch of human being have extinct long ago. Now scientists are searching their fossils for more then hundred years. Yet fossil record are sparse.

They are searching for fossils which would show the sign of increasing brain, development in legs, pelvis, skull and face in ape like creatures. They grouped fossils found so far in 5 genus. Those are :

Australopithecus

Homo Habilis

Homo Erectus

Homo Nianderthalensis.

Homo Sapiens.

Australopithecus : Lived in Southern Africa 2 to 3 million years ago. They were purely ape like creatures with cranial capacity 400-500 cc. One of the species in this genus was Australopithecus Afrensis. A remarkable fossil of this species is found in Ethiopia. The fossil is named 'Lucy'. This animal lived 4 million years ago and was 1 meter tall. The fossil is remarkable for its knee Joint which shows that the animal could

fully straighten its legs. That means, the animal could walk bipedally. Other parts of the body was ape-like. That means that the animal was an ape which could walk bipedally. This freed the animal from bowlegged stride that keeps modern apes incapable of more than a few steps of bipedal walking and keeps them in dense forest where moving though the branches of the trees is possible. This bipedal walking triggered evolution towards human being.

The fossil was found in Ethiopia by Donal Johanson (Later became president of the Institute of Human Origin) and his team. It was not found intact. Fossilite bones collected from a large area were sorted and suitable bones were pieced together to make this skeleton. Still 60% bones including the skull have not been found.

Later they made the skull with small fragments which is looking like other Australopithecus. However to describe next part of the hypothesis we will consider that creatures like Lucy really had been existing, used to look like as they have constructed and used to walk bipedally. Descendants of these A. Afrensis was A. Africanus were similar to A. Afrensis in overall body design. However none of their knee joint is found so far.

Homo Habilis : Homo habilis had increased cranial capacity. Similarity shows that they were descendants of A. Africanus. They appeared about 2.5 million years ago in Africa. They were in average 1.52 m tall and weighed under 45 kg. They survived 50,000 years or more and a group of them evolved into next species named Homo erectus.

Fossils of Homo habilis are found at Olduvai Gorge in North Tanzania and Koobi Fora region in North Kenya. These fossils are named OH-7, OH-13, OH-16, OH-24, KNH-ER

1470, KNH-ER1813, KNH-ER 1805. The finds are fragments of cranium, jaws, teeth and hand bones. (No leg bone and knee joint is found.)

Homo habilis is remarkable for its increased cranial capacity which was about 640 cc. Scientists believe that they were predecessor of Australopithecus. Therefore, had increased height and also used to walk bipedally (though they got parts of skull and hand bones only).

In 1986 a valuable fossil of Homo habilis was discovered in Olduvai Gorge (OH-62). It is only fossil with which limbs are found. It shows that Homo habilis was a very small hominid and compared to its legs its arms were longer. It had body proportion which extremely differ from those of more modern hominids.

"The find is especially important because of the associated limbs, which show that OH 62 is a very small hominid indeed. The arm is long relative to leg length so that this individual has body proportions which differ dramatically from those of more modern hominids."—*The New Encyclopedia Britannica*.

Then, should we consider that they were the ancestor of robust Homo erectus? This fossil (OH-62) is not given due importance. Instead, they have fixed tentative big bones with other fossils of Homo habilis to exhibit link between Australopithecus and Homo erectus.

"Only a few post cranial parts have been discovered. Some limb bones from Olduvai and Kobi Fora have been grouped tentatively with H. habilis on the strength of general anatomic similarity to later humans. These fossils however, are not associated with teeth or skulls, and it is probably not appropriate to use them as the basis for describing early Homo."—*The New Encyclopedia Britannica*.

However, to describe next part of the hypothesis we will consider that the *Homo habilis* was as tall as they say, used to walk bipedally and evolved in to *Homo erectus*.

Homo erectus : In the path of evolution *Homo erectus* is next to *Homo habilis*. *Homo erectus* lived in almost every part of the old world. Fossils are found in Java, China and Africa. Finds are mainly cranial bones, mandibles and teeth. In post cranial part a few femurs are found which are robust but similar to human femur.

Their head were more ape-like. They had very thick skull bone, low brain case, jutting brow ridge. They had thicken part at the hind side of the skull called occipital torus. They had receding forehead, wide nose, jaws and palate with very large front teeth which only apes bear. Due to so many differences many paleoanthropologists believe that modern human being did not evolve from *Homo erectus*. *Homo erectus* had increased cranial capacity of about 1043cc in average.

They got some skulls and a few femurs. Then, how they say that the creature used to walk bipedally? They predicted this by seeing attachment of neck with the skull. Upright animals should have attachment more underneath of the skull. (nearer to chin). Though a tree living animal may also have the same feature. However, fossil evidence clearly shows that *Homo erectus* evolved into next species named *Homo Neanderthalensis*.

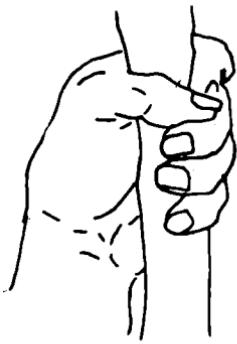
Homo Neanderthalensis : The species is called *Homo Neanderthalensis* because its first fossil was found at Neanderthal in Germany. They mainly lived in Europe and had geographic variants in other continents. They emerged 2,00,000 to 1,00,000 years ago and about 50,000 to 30,000 years ago as

the fossil record shows that the whole race suddenly disappeared.

Fossil record clearly shows gradual development from *Homo erectus* to *Homo Neanderthalensis*. They also had longer and lower braincase. Face remained large and long with jutting brow ridge and projecting teeth and nose. Their chewing muscles and cheek reduced a bit. Teeth remained large like *Homo erectus* indicating that they used to use their mouth as a vise or third hand. In Asia and Africa, facial massiveness of the Neanderthal's relatives reduced. They had broad shoulders, large chest, extremely muscular upper limbs.

Their pelvis, legs and toes suggest that they required more irregular lateral movement during locomotion.

Their hand bone suggest greater emphasis on power grip than precision grip. (The way we hold a pen to write is called precision grip. The way we hold a rope to climb is called power grip.)



power Grip



precision Grip

Figure : 12

Neanderthals used to live in small groups. They could make stone tools or flakes and spears of wood. They domesticated fire as it is indicated by charcoal and reddened earth in their sites. They totally lived on hunting and there is almost no evidence that they ate plant food. Small sizes of their sites and depth of debris at a number of sites indicate that they used to move frequently.

Fossil evidence shows a high frequency of traumatic injury. The remains show signs of serious wounds, sprains and breaks. It indicates serious fighting tendency among different groups. Abundant evidence of nutritional deprivation during growth shows lack of kindness and weak family ties.

Modern Human Race : Modern human skeleton has many differences from those of Neanderthal skeletons. Following description will help one to understand the differences. In an anatomically modern human skeleton cranial vault have high maximum breadth with vertical forehead. They have smaller jaw and teeth, therefore it only needed smaller masticatory muscle on delicate facial structure. Lighter face required lighter neck muscle behind the point of balance of the skull. Therefore, area of attachment to the skull is more underneath. They have prominent nose and chin.

Modern human skeleton shows a fully upright posture. Vertebral column shows two secondary curves when viewed from a side. These curves at the neck region and lumber region allow weight to be evenly distributed about the line of gravity which passes vertically through the second vertebra behind the rotation centres of the two hip joints. This permit pelvis to tip backward beyond the line of gravity and rest upon a strap like

ligament. This is a sophisticated effort saving mechanism that allows muscles around it to relax. Ability to lock the knee rearward also relax some surrounding muscles. Power to rise from seated position is provided by large buttock muscles. Pelvic tilt mechanism allow leg to swing clear of the ground during walking. In addition such tilt must avoid wild side to side movement of the centre of gravity. This is achieved by inclining the thigh bones towards the midline and thus bringing the feet closer together. Weight and force are transmitted to ground through a propulsive system of short levers that permits a heel-toe stride. Upper limbs provide dynamic balance of the body. Arms swing compensates twist of the body towards the side opposite to the advancing foot.

Modern human being are capable of precision grip. This requires tips of the thumbs and next two fingers to come together in order to hold small object like a brush to paint or a pen to write, a grip that demands that fingers be proportionate and that the joint at the base of the thumb be of a special saddle shaped variety.

Did human being evolved from Neanderthals? : Fossil record indicates that *Homo Nianderthalensis* evolved from *Homo erectus*. *"The fossil evidence for few hundred thousand years leading up to the time of the Neanderthals shows a gradual change from a Homo erectus to one approaching the Neanderthals. Particularly in western Europe, the evidence shows a gradual decrease in the size and frequency of the anatomic characteristics of H. erectus and a gradual increase in features suggestive of the Neanderthals—The New Encyclopedia Britannica.*

But difference between *Homo Neanderthalensis* and human being are many. There is no *Homo Neanderthalensis* fossil found so far that shows a change towards human being. Genetic analysis carried out in 1997 has finally confirmed that human being have not been evolved from *Homo Neanderthalensis*. Fossil record shows that about 30 thousand years ago whole *Homo Neanderthalensis* race suddenly disappeared.

*"British paleontologist Chirstopher Stringer is convinced that Neanderthals evolved in Europe from *Homo erectus* and suddenly became extinct betwon 35,000 and 30,000 years ago, unable to compete effectively with *Homo sapiens* originating in Africa". In my view, he says "they are a dead end highly evolved in their own direction but not in the direction of modern humans." –Time, March 14, 1994*

Now it is widely accepted to the evolutionists that the modern human beings have not evolved from *Homo Nianderthelensis*.

Did human being evolved from *Homo erectus*? : Human being did not evolved from *Homo Neanderthalensis*. Did they evolve directly from *Homo erectus*?

*"The skulls of the *Homo erectus* fossils show other cherecteristics of their physical appearance. The braincase is low, and the skull bones are thick. They have jutting brow ridge and a markedly thickened area of bone at the hind end of the skull called occipital tourus. The forehead recedes, and the nose, jaws, and palate are wide. The front teeth are larger even than *Australopithecus* and arctic trait that occurs in apes but in no other hominids. It is generally agreed, however, that the dentition is hominid and not ape-like. These mixed traits are puzzling. Some paleoanthropologists see them as specialized*

features characteristic of neither Homo sapiens nor the ape and question whether Homo erectus evolved towards Homo sapiens. According to these paleoanthropologists, H. erectus wandered off the main evolutionary line and could not have been an ancestor to modern humans. This appears to leave two possibilities. Either H. erectus with his thick cranium and outsize dentition was not on the direct evolutionary line from Australopithecus to H. Spaiens, or H. erectus evolved specialized features from Australopithecus and then lost them again in the transition to H. sapiens." – The New Encyclopedia Britannica.

"The total pattern of the bodily structure of H. erectus as preserved in the bones, is rather different from that of Homo Sapiens. Parts of the post-cranial skeleton are robust but otherwise generally comparable to those of modern humans. The brain is relatively small, though not so small as that of Australopithecus and H. habilis. In addition, in this hominids thick skull bones and extra ordinarily developed eyebrow ridge and occipital tours, some investigators say that they see unique, specialised features, not characteristic either of its presumed ancestors or of apes and not pointing to H. sapiens as the direction of subsequent evolution. Some scientists even infer that these last traits show H. erectus to have specialized so far off the modern human line that it could not have been ancestral to H. sapiens". –The New Encyclopedia Britannica.

Therefore, we may say human being did not evolve from Homo erectus.

The figure and Chart below indicates that Homo Neanderthalensis was similar to Homo erectus. It shows Homo Neanderthalensis could evolve from Homo erectus. The figure and the chart also shows that human being is different and did not evolve from Homo Neanderthalensis or Homo erectus.

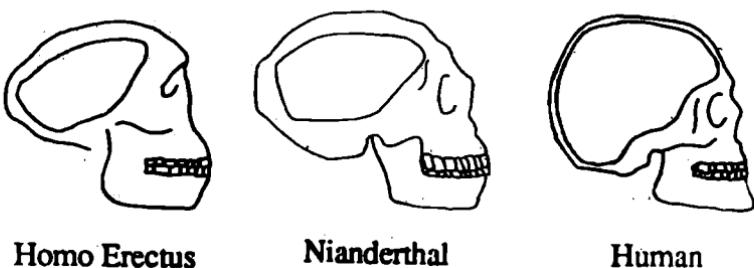


Figure : 13

	H. Erectus	Neanderthals	Human
1. Brow ridge	High	High	Plain
2. Forehead	Receding	Receding	Vertical
3. Skull bone	Thick	Thick	Thin
4. Occipital Torus	Present	Present	Absent
5. Brain case	Longer and Lower	Longer and lower	Round and High.
6. Attachment of head with the neck.	Rearward	Rearward	Forward (Close to chin.)
7. Chin	Full chin Absent	Full chin Absent	Prominent chin
8. Teeth	Large	Large	Small
9. Muscle	Heavy	Heavy	Light
10. Cranial capacity	1000cc	1200cc	1450cc

Human being did not evolve from *Homo erectus* or *Homo Neanderthalensis*. Did human being evolved from *Homo habilis*? If one consider OH-62 (only *Homo habilis* fossil with which limbs are found) one would agree that it was not ancestral to human being. If one consider 'Homo habilis skeleton with tentative bones' are real, still one has to agree that to became human being from *Homo habilis*, many stages of development were required. Then where are their fossils?

Now an evolutionist may say that the human being is a result of accident (creative accident is divine). An astronomer may say that the human being came from other planet. And the person believe on God may say that the human being came from heaven.

Creation of Adam

God created the first organism in a way that the biological evolution became natural. In addition *Lawh-Mahfuz* provided necessary help through angels (if it was required) and guided the evolution towards a goal.

Once God created the system of evolution it was given scope to go up to its end. As a result, at the end of evolution Neanderthals evolved. *Lawh-Mahfuz* knew many details of human being. Therefore, could guide the angels to produce a creature like human being which we call *H. Neanderthalensis*. But it failed in making a suitable brain. On the other hand, earthly nature made the Neanderthals violent and extremely fit for survival. They did not require to make houses, did not require to use cloths for cold or did not require to fear lions and tigers. Probably they were naturally immuned from all diseases.

The Homo Neanderthalensis lived in this world for about 1,50,000 years but could not evolve into a creature which could be the vicegerents of God. The universe was given a chance to evolve a creature which could take the leadership of the universal creatures. Once they failed God by Himself created Adam.

Scientists identified signs of many serious wounds, sprains and breaks in all H. Neanderthalensis fossils,. Hardly a few of them lived past 45.

"The difficult existence of the Neanderthals is reflected in their high frequency of traumatic injury (the remains of all older individuals show signs of serious wounds, sprains or breaks), abundant evidence of nutritional deprivation during growth (more than 75 percent have evidence of growth defects in their teeth), and low life expectancies (few lived past 40 years, and almost none lived past 50 years). Yet, they were able to keep severely injured individuals alive, in some cases for decades, again reflecting more advanced social organisation". –The New Encyclopedia Britannica.

Many animals like tigers, lions, wolfs live on hunting but they do not bear so many wounds and sprains in their bodies. Therefore, it indicates that the Neanderthals were very cruel and always used to fight with one another or one group with the other. Physical robustness coupled with relatively developed brain made them too dangerous for themselves and for other creatures on the Earth.

Therefore, when Allah said to angels :

"Behold thy Lord said to the angels : I will create a vicegerent on earth. They said wilt thou place there in one who will make mischief therin and shed blood"?

—Al Quran 2 : 30

Why angels got such an idea about human beings? Probably, they got such an idea because they saw Neanderthals shedding lot of blood.

Allah answered :

"He (Allah) said, "I know what ye know not"

— Al Quran 2 : 30.

That means, Allah claimed that He had enough knowledge to make a suitable creature (though in the process of evolution it could not be, even the evolution was guided by *Lawh-Mahfuz* and Angels).

Then Allah by Himself made Adam and Eve. Adam and Eve lived in *Zannat* (paradise) for some times and then were sent to the Earth.

Adam had a few major differences from those of *Homo Neanderthalensis* which made him an unique creature. Just after creation Allah taught him some names and Adam could quickly learn.

"And He (Allah) taught Adam the names of all things then He placed them before the angels, and said, "Tell me the name of these if ye are right". They said, "Glory to thee of knowledge we have none, save what Thou has taught us In truth it is Thou Who art perfect in knowledge and wisdom." He said, "O Adam! tell them their names, "When he had told them. Allah said : "Did I not tell you that I know the secrets of 'skies and lands' and I know what ye reveal and what ye conceal?"

—Al Quran 3 : (31-33)

This is where Neanderthals seriously lacked. They could not learn much. Scientists got enough evidence to show that they did not use the Earthly resources. They could not make houses,

could not invent better weapons and transports. They did not formulated rules and regulations for life. They lived for about 150,000 years but only made stone and wooden weapons. They used to live in caves in small groups, used to hunt animals and knew how to use fire. They always used to fight with one another. It indicates that their knowledge and wisdom did not develop. Probably their brain was not suitable to learn much, because of the reason that they evolved from other animals. Therefore, their brain could not get rid of genetic programming which takes place inside mothers belly (in womb). As for example a dear knows by birth how to walk. A bird knows by birth what to eat, where to make nest. Some of them even can fly from the North pole to the South pole and return to the same place. All animals have particular living trait and behavior. Those they are not taught by their parents, they know it by birth. How do they know it? When their body forms in the egg or in their mother's womb their brain is programmed by the genes. When they take birth there brain is already programmed and they almost can not learn any thing new. But human brain has an unique characteristics. When they form in the mother's womb at a particular stage it denies to learn from the genes. Therefore at the time of birth a human baby knows nothing. Even he does not know how to walk or how to sit. A baby monkey knows by birth how to grasp and remain hanging in the mothers belly. But a human baby even cannot grasp anything. Human baby start to learn after birth. Therefore this process of learning remain throughout his life. This is the reason for which human being has developed so much. They have reached to the Moon but Chimpanzees are still in the forest and like them Neanderthals lived for about 1,50,000 years but could not develop.

Angels also cannot learn anything new at their own. A major angel may have vast knowledge. But those knowledge were given to him during creation. After creation he cannot learn at his own. However if needed *Lawh-Mahfuz* can infuse knowledge in

an angel through *Sidratul Muntaha*. But human being could learn after creation. This was what Allah showed to the angels. Allah taught Adam some names and Adam could learn it and could tell the same in front of the angels. That means Adam had the capability to learn. No creature possess such capability.

Next major difference Adam had from those of the Neanderthals was in his hands. Hands of the Neanderthals were not suitable for precision grip. (The way we hold a pen to write is called precision grip. The way we hold a rope to climb is called power grip.)

"The details of their (Neanderthals) hand bones, however, suggest greater emphasis on power than precision grip." –*The New Encyclopedia Britannica*.

But the hands of Adam were suitable for precision grip. This allows us to hold a pen for writing or a brush for painting.

"He (Allah) who taught (the use of) the pen. Taught man that he knew not". – Al Quran 96 : (4-5)

Therefore, descendants of Adam could write down acquired knowledge for their predecessors.

Adam can talk. Face was made lighter and suitable to talk. Innumerable nerves (exceptionally greater than those of other animals) connecting face with brain co-ordinate talking actions. And descendants of Adam have fully developed language.

"He (Allah) has created man. He has taught him to talk."
-Al Quran 55 : (3-4)

Adam's body was also made lighter . Skin was made soft. And descendants of Adam had no other way but to use their brain to survive on the Earth.

Conclusion

I have described that the Quran (verse number 45 of *Surah Nur*) supports the idea of biological evolution. Only about the Adam and Eve the Quran mentions that they were sent from *zannat* (paradise). Human being cannot be put at the end of the chain of evolution. It is the Neanderthals who stands at the end.

"Verily in the skies and lands, are sings for those who believe. And in the creation of yourselves and the fact that animals are scattered, are signs for those of assured faith. And in the alternation of night and day and the fact that Allah sends down substance from the sky, and revives therewith the earth after its death. And in the change of the winds are signs for those that are wise".

—Al Quran 45 : (3-5)

Ref.

- a. *Planet Earth* -Peter Owen in *The Encyclopedia of Space Travel and Astronomy* edited by John Man.
- b. *The New Encyclopedia Britannica (Vol-6)*
- c. *The 'Time'* March 14, 1994.

CHAPTER SIX

Six Days

In the Quran it is said that the universe was created in six days. We also know, when Allah desires to create something He says 'Be' (Kun) and it is created.

Surah Yasin (82) Verily when He intends a thing His command is 'Be' and it is - Al Quran.

Therefore, we grow an idea that Allah has created this universe by saying 'Be'. The idea may not be correct. Because, if Allah had created this universe by saying 'Be' then it would not take six days ; it would be created instantly.

For an example, we know, an elephant is created out of some elements like hydrogen, oxygen, carbon, calcium, iron etc. Now, if Allah gather those elements and order it to be an elephant ; it will not be able to be. Because, those elements do not know, what is an elephant and how to be an elephant. Therefore Allah will apply His order on all the atoms of the elements simultaneously and move each atom to a desired point. Then the atoms will combine and instantly an elephant will be created. Allah has such control on everything of the universe that all moves and acts as He desires on the order 'Be'. It mainly expresses His power. Allah has created this universe. In the universe He has absolute power on everything. But when there were nothing whom He could order? And when the universe was in the process of creation Allah had to act more.

Allah could also order *Lawh-Mahfuz* to create an elephant. Detail description of an elephant is written in *Lawh-Mahfuz*.

Lawh-Mahfuz could use angels to create an elephant. It would take time. At present the universe is organized. Everything runs according to the fixed natural laws. At this state *Lawh-Mahfuz* and angels can function.

At the beginning Allah by Himself created this universe in six days. In explaining the creation in ‘six days’ I found mainly two difficulties described below.

Firstly : In the Quran length of a day of creation is not mentioned.

Surah Hajj (47) : A day in the sight of thy Lord is like a thousand years of your reckoning.- Al Quran.

The verse mentions that at present one day of Allah is equal to our one thousand years.

Surah Al Maarij (4) : The angels and the ruhh ascend unto Him in a Day. The measure where of is (as) fifty thousand years.- Al Quran.

This verse talks about the day of final judgment which will be equal to our fifty thousand years.

Therefore, to Allah all days are not equal. And how long were those ‘six days’ is not mentioned in the Quran.

Secondly : It cannot be specified when the creation was completed. As for example : someone may opine that the creation of a plant is complete as soon as an embryo is produced in a flower. Someone may argue that its creation is completed once it is germinated. Someone may argue that the creation of the plant is not completed unless it can produce fruit.

In the same way, someone may say that creation of the universe was completed as soon as the Big Bang occurred. Nothing is created after that. Total quantity of forces/ energies/

matter will always remain same. The universe has evolved to the present state through evolution. Through evolution something change from one state to another. Evolution is not creation.

On the other hand, someone may argue that the universe is still in the process of creation. None is illogical. Still new stars and planets are forming in the galaxies. Therefore, it is also not illogical to say that the universe is still in the process of creation.

Therefore we cannot specify at what point creation of the universe was completed. However, the Quran to some extent indicates that the creation of the universe was complete as soon as the universe was made into seven skies in last two days. Therefore, I will mainly try to find out the length of six days. And see what was the state of the universe at that time.

Six Days –First Explanation :

At first let us see, whether we can explain the creation if we consider that those days were equal to our earthly days?

The Universe :

Surah Al Sajdah (4) : It is Allah who has created the 'skies and lands and all between them' in six days

- Al Quran.

In this verse 'skies and lands and all between them' means whole universe. Therefore, the verse mentions that the whole universe was created in six days.

Surah Fussilat (12) : So He completed them as seven skies in two days - Al Quran.

Therefore we should say that in first four days the universe came into existence and in next two days the space was made into seven skies.

A tree may age 100 years but its creation was complete when it was inside the seed in dormant state. To come upto that state it did not take much time. Likewise, one can say that just after the Big Bang the creation of the universe was complete.

"Within only a few hours of the Big Bang, the production of helium and other elements would have stopped. And after that, for the next million years or so, the universe would have just continued expanding, without anything much happening.

-A Brief History of Time by Stephen W. Hawking.

But we will consider that six days after the Big Bang the universe came to a state when it could be said that the creation of the universe was complete. Might be those six days were equal to our six earthly days. In light of verse number 47 of surah Hajj and verse number 4 of Surah Al-Maarij narrated before, we can also say that, might be those six days were equal to 6000 (1000×6) earthly years or 300,000 ($50,000 \times 6$) earthly years. The universe was very small at that time but that tiny universe was programmed to produce the universe as it is today. What was not there at that time, donot exist at present. All the souls were also created at that time.

Hadith : 'The thing that was created by Allah was Lawh-Mahfuz. Allah then ordered Lawh-Mahfuz to write. Lawh-Mahfuz asked what should it write? Allah ordered to write the fate of everything. Lawh-Mahfuz wrote all those would happen from the beginng to the end."

-Tirmizi.

The universe was programmed accordingly. In last two days, the universe was made into seven skies and determined natural laws were made effective.

Surah Fussilat (12) : So, He completed them as seven skies in two days and He assigned to each sky its duty and command—Al Quran.

The creation of universe was completed at that stage.

As the natural laws had come into effect, in course of time universe arrived to the present state through the determined path of evolution.

Therefore, one can say that though the age of the universe is 10 to 12 billion years, it was created in six days. No matter if the days were equal to 6 earthly days. Then through a long process of evolution it has come to the state of today.

The Earth : The Quran says that the Earth was also created in six days.

Uranium we find in the Earth radiates and gradually transforms into thorium. The rate of change and the amount transformed into thorium indicates that the age of the Earth is 4·6 billion years.

Surah Fussilat (9) : Say; Is it that ye deny Him who created the Earth in two days? And do ye join equals with Him? He is the Lord of the worlds. -Al Quran.

I have described that the Earth formed with many solid pieces of matter which were floating in space (like asteroids). Probably a big group of asteroids that was swirling around the Sun was tide up by a gravitational force. Therefore, the Earth came into existence. It took only 2 days that may be equal to 2 earthly days or 2000 (1000×2) earthly years or 100,000 ($50,000 \times 2$) earthly years. But that Earth was not potential

enough. If it would be left in that state it would make a planet like the other planets of the Sun. But the aim of creating the Earth was to make a planet which would be suitable for creature like us. Here oceans filled up with water is required. Here we require plane fertile land, rivers, hills and a suitable nature.

Allah is wise. He did not work for billions of years to make the Earth suitable for us. In next 4 days that may be equal to 4 earthly days or 4000 (1000×4) earthly years or 200,000 ($50,000 \times 4$) earthly years He made a due proportion in different kinds of matter. For example, the atmosphere the Earth got during formation do not exist at present. If it was existing, the amount of heavier gas like Nion, Argon, Krypton etc. would be more in the atmosphere. For some unknown reason that atmosphere moved away. At the same time there are some elements in the Earth, existence of which is surprising. Here all kinds of matter are available in due proportion.

For due amount of short lived radio-active element new born Earth melted. Therefore long process of being suitable for living creatures began. In the process of evolution, after a long period of time, it became suitable for life. For the stability of land and atmosphere hill ranges were raised. Here we get different kinds of matter in due proportion. We get huge oil and gas as fuel. Iron is more required, so iron mine is more; lead is less required, so mine of lead is less. Rice and wheat is more required, so land suitable to cultivate rice and wheat is more. Tea is less required, so land suitable to cultivate tea is less.

Formation of such a balanced Earth was possible because during formation there were different kinds matter in due proportion. I have described that, if the short lived radio-active

material had not been existing in correct proportion, the Earth would not have melted perfectly. We would not get required menarals in the mines. If the different kinds of matter had not been existing in correct proportion, this type of Core, Mantle and Crust would not have formed. Such land would not have formed which supplies us food in due proportion. If the amount of long lived radio-active elements bad not been in due proportion, interior heat of the Earth would not have remained - continents would not have drifted - many hill ranges would not have come into existence. This due proportion in different kinds of matters were made in next four days which is said in the next verse of the same surah.

Surah Fussilat (10) : He set on the (Earth) mountains standing firm, high above it, and bestowed blessing on the Earth, and measured there in all things to give them nourishment in due proportion in four days in accordance with those who ask. – Al Quran.

In verse number 9 of *surah Fussilat* it is said that the Earth was created in two days by gathering small solid particles floating in space. And in verse number 10 it is said that a due proportion in different kinds of matter was made in the next four days. These could be done even the days were equal to six earthly days.

The Earth took long time to come to its present state through natural process of evolution but it was created only in six days.

We may say 10 to 12 billion years ago in 'six days' the universe was created. Long after the creation of the universe, 4·6 billion years ago in another six days the Earth was created.

Six Days - Second Explanation

Creation in six days can also be explained even if we consider that those six days were equal to our six earthly days. But were those days really equal to our earthly days? We will never know that. Because, Allah has not said it in the Quran. But we can analyze and try to know, how long those days might be (if those days were not equal to our earthly days)?

Surah Fussilat (9) Say; Is it that ye deny Him Who created the Earth in two days? And do ye join equals with Him? He is the Lord of the worlds. (10) He set on the (Earth) mountains standing firm, high above it, and bestowed blessings on the Earth, and measured therein all things to give them nourishment in due proportion, in four days in accordance with those who ask. (11) Moreover He put His attention to the sky. And it had been smoke : He said to it and to the land "Come ye together, willingly or unwillingly." They said,"We do come in willing obedience". (12) So, He completed them as seven skies in two days and He assigned to each sky its duty and command. And We adorned the sky of the Earth with lights, and with guard. -The Quran.

If someone add up the days in above mentioned verses, total number will be eight. Verse 9 and 10 give the account of 'six days' which was required to create the Earth. Verse number 11 and 12 mention about 'two days' which was a part of another 'six days', was required to create the universe. Therefore, it indicates that there were two 'six days'. In one 'six days' the universe was created and in another 'six days' the Earth was

created. However, a part of these two 'six days' was overlapping which will be shown later.

The above mentioned verse number 9 and 10 tell about the creation of the Earth and verse number 11 and 12 tell about the creation of the universe. Description on the creation of the universe has come after the description on the creation of Earth. Does it mean that the universe was created after the Earth? It does not mean. Because, verse number 11 and 12 only describe a part of creation in which the universe was made into seven skies. It means, the creation of universe began before the creation of the Earth. But the universe was made into seven skies after the creation of the Earth (The Earth was created in two days).

However, in this respect many Islamic thinkers point out the last part of verse number 10 (. . . .in accordance with those who ask). This part of the verse gives a sense of conclusion. Therefore, express that verse number 9 and 10 have no relation with verse number 11 and 12. Therefore, though the description on the creation of the universe has come later. It does not mean that the universe was made into seven skies after the creation of the Earth. But I think there is some reason for which description on 'making the universe into seven skies ' has come after the description on the creation of the Earth.

One obvious reason for describing the formation of the skies after the Earth is that, the creation of Earth was not the end of the job. Putting it in perfect position in the sky was also important which is described in the verse number 12. As a result description on the creation of the skies has been given after the Earth.

Another reason is that, the universe was made into seven skies simultaneously with the creation of the Earth. As a result it has been said with the description on the creation of the Earth.

We know that the Earth was created 4·6 billion years ago. According to the verse number 9 and 10 of *Surah Fussilat*, the matter of the Earth was created in two days. After creation, the Earth has been made suitable for creature like us in four days. Therefore four days started 4·6 billion years ago (as soon as the Earth came into existence).

When the Earth became suitable for living creatures? We know, about 3 billion years ago first plant originated. At that time the Earth was not suitable for animals. About 0·6 billion years ago first animal originated. Then we can say that the Earth has become suitable 0·6 billion years ago. We know in 4 days the Earth was made suitable for living creatures. On the other hand we find the Earth took 4 (4·6–0·6) billion years to be suitable for animals. Therefore four days of the Earth was equal to 4 billion years. Therefore, we can say that each day of creation was equal to one billion years.

Before 4·6 billion years matter of the Earth was created inside a star which took 2 days or 2 billion years.

Therefore we can say, that about $(4\cdot6 + 2)$ 6·6 billion years ago a star formed, in which matter of the Earth was created. The star exploded and with some scattered matter the Earth formed. It took about 2 billion years (2 days). After formation for about 4 billion years (4 days) the Earth was being suitable for us. And about 0·6 billion years ago it became suitable.

The Earth was created in six days. The univese was also created in six days. But total number of days is not twelve. Four

days were common. To understand the creation we are to know which days were common. It will also enable us to understand why in *Surah Fussilat* last two days of the universe (in which the universe was made into seven skies) have come with the description of the Earth. In this discussion the following points to be kept in mind.

The universe : Verse number 4 of Surah Al-Sajdah and verse number 12 of Surah Fussilat highlight that :

- a. In the first four days universe came into existence.
- b. In the next two days the universe was made into seven skies.

The Earth : Verse number 9 and 10 of *Surah Fussilat* mentions that :

- a. In the first two days the Earth was created.
- b. In the next four days the Earth was made suitable for living creatures.

In *Surah Fussilat* (9–12) description of last two days of the universe has come with the description on the creation of the Earth. In the six days of the Earth, where we can put the last two days of the universe? Note the following verse carefully.

***Surah Bakarah* (29) :** It is He Who has created for you all things that are in the lands ; Then He turned to the sky and made them into seven skies. And of all things He hath perfect knowledge. - Al Quran.

This verse clearly says that after creating the Earth the universe was made into seven skies. Therefore we can say that just after making of the Earth in two days (first two days of the Earth)

Allah made the universe into seven skies in another two days (last two days of the universe).

Now we can put the creation of the universe and the Earth in one sequence.

- 1st day : The matter of universe was created and was being made stable.
- 2nd day : The matter of universe was created and was being made stable.
- 3rd day : The matter of universe was created and was being made stable. Matter of the Earth was also being created. It is the 1st day of the Earth.
- 4th day : The matter of universe was created and was being made stable. Matter of the Earth was created. It is the 2nd day of the Earth.
- 5th day : Universe was being made into seven skies. The Earth formed and started becoming suitable for creatures. It is the 3rd day of the Earth.
- 6th day : The universe was made into seven skies and the creation of the universe ended. The Earth was being suitable for animals. It is the 4th day of the Earth.
- 7th day : The Earth was being suitable for living creatures. It is the 5th day of the Earth.
- 8th day : The Earth became suitable for living creatures. It is the 6th day of the Earth.

If we consider that each day was equal to 1 billion years then the age of the universe will be $8 + 0.6 = 8.6$ billion years. However it can not be said for sure that, all days had the same

length. Scientist calculate that the age of the universe is 10 to 12 billion years.

Surah Naziat (27) : what! Are you more difficult to create or the sky? (Allah) has constructed it: (28) On high has He raised it, and He has given it order and perfection. (29) Its night does He endow with darkness, and its splendor does He bring out (30) And the land (the Earth), moreover has He extended (31) He draw out therefrom its moisture and its pasture : (32) And the mountains has He firmly fixed (33) For use and convenience to you and your cattle. -Al Quran

In the above mentioned first three verses (27 to 29) it is said that the sky was raised (the universe was expanded) to an extent that the night became dark (Olber's Paradox). Simultaneously the Earth was being prepared for creature like us which is described in later four verses (30 to 33).

I have described that the creation of the matter of the Earth started when age of the universe was 2 billion years. Matter of the Earth was created in a star. Was there any star at that time which could last long to create the matter of the Earth.

We find gold, silver, uranium etc. in the Earth. These elements can be created in a star when it explode at the end of its life (super-nova-explosion). It takes billions of years. If the Earth was created by scattered matter of exploded stars, total time it would require, would be more than the age of the universe. Rate of expansion suggest that the age of the universe is 10 to 12 billion years. The Earth was formed 4·6 billion years ago. 5·4 (10–4·6) billion years was not sufficient for the creation of enough complex matters (gold, silver, uranium etc.) in many

stars. Because, if there were millions of planets one would be suitable for life. But we yet do not know whether other stars have planets or not.

Therefore, age of the universe as suggested by the rate of expansion does not advocate that the matter we find in the Earth were created through normal process of evolution. Then how those were created? It may so happen that the heavier elements which were required to create the Earth (including other planets of the solar system) were created in a specially made star. The star exploded and the matter which was created for the Earth scattered in the space.

Initially there were only one sky, full of smoke. In last two days of the universe when the universe was being made into seven skies, matter which had been created for the Earth was collected.

Surah Fussilat (11) : Moreover He put His attention to the sky, And it bad been smoke : He said to it and to the land “Come Ye together, willingly or unwillingly” They said, “We do come in willing obedience”. (12) So, He completed them as seven skies in two days. - Al Quran.

Matter which was created for the Earth (including other objects of the solar system) is being called land in this verse. Particles of the matter was scattered in the smoke which were called and collected.

With those matter the solar system (which includes the Earth) was made and was put between two arms of the Milky way galaxy (both the arms of the galaxy are 7000 light years away). Around the solar system some stars were also put which we think lies in a bar projecting from an arm of the Milky way

galaxy. Other planets of the solar system works as guards (ensure proper rotation of the Earth around the Sun and draws bigger asteroids on them). These are said in the next verse of the same Surah.

Surah Fussilat (12) : So He completed them as seven skies in two days and He assigned to each sky its duty and command. And We adorned the sky of the Earth with lights (of the stars), and with guards - The Quran.

Six Days - Third Explanation

There is another explanation of the six days given by Kazi Zahan Mia in his book named *Al-Quran - The Challenge*.

Out of six days, last two days were used to make the universe into seven skies. Then one can say that the universe was created in first four days.

According to modern scientists the universe evolved to the present state through four stages. Accordingly they have divided the total time into four era.

Kazi Zahan opines that the days were not equal and each day indicates an era of the universe. A day of God may be very small or may be very big.

1st day : Hadronic Era (lasted up to 10^{-4} sec)

2nd day : Leptonic Era (lasted upto 10th sec)

3rd Day : Radiative Era (lasted upto 10^6 years)

4th Day : Stellar Era (Familiar Universe)

Kazi Zahan has not mentioned about last two days when the universe was made into seven skies. He also has not talked about the creation of Earth in six days.

The last two days of the universe is not likely to show a clear stage of development because at that time universe was made into seven skies. That means, it was a matter related to the curvature of space, about which we do not have enough knowledge.

His idea about the creation in four days is logical. If I take this part form him and add up creation of the Earth then all the six days of the Earth will fall in the fourth day of the universe. We know the fourth day of the universe ended as soon as the matter of the Earth was created. The Earth was created 4·6 billion years ago. If we consider that the age of the universe is 10 billion years then the fourth day of the universe lasted upto (10 — 4·6) 5·4 billion years.

We also know that, the 5th and 6th days of the universe and the 3rd and 4th days of the Earth went on simultaneously and was probably equal. Therefore, the 5th day of the universe lasted upto about 6·4 (5·4+1) billion years and 6th day of the universe lasted upto about 7·4 (6·4+1) billion years.

And the 6th day of the Earth lasted up to 9·4 (7·4+2) billion years.

Six Days : Modified Second Explanation

I have described that there were two six days out of which four days were common. I have also described that each day of creation was equal to one billion earthly years. What happens if we consider that those days were equal to Earthly days. I have already given the explanation considering that the days were equal to our earthly days. But there I had to consider that about 10 billion years ago the universe was created in six days and about 4·6 billion years ago the Earth was created in another six

days. Now in this explanation we will consider that the days were equal to earthly days and four days were common.

100 second after the Big Bang the universe started producing hydrogen and helium.

"About one hundred seconds after the Big Bang, the temperature would have fallen to one thousand million degrees, the temperature inside the hottest stars. At this temperature protons and neutrons would no longer have sufficient energy to escape the attraction of the strong nuclear force, and would have started to combine together to produce the nuclei of atoms of deuterium (heavy hydrogen), which contain one proton and one neutron. The deuterium nuclei then would have combined with more protons and neutrons to make helium nuclei, which contain two protons and two neutrons, and also small amounts of a couple of heavier elements, lithium and beryllium. One can calculate that in the hot Big Bang model about a quarter of the protons and neutrons would have been converted into helium nuclei, along with a small amount of heavy hydrogen and other elements. The remaining neutrons would have decayed into protons, which are the nuclei of ordinary hydrogen atoms" – *A Brief history of Time* by Stephen W. Hawking.

"Within only a few hours of the Big Bang, the production of helium and other elements would have stopped. And after that, for the next million years or so, the universe would have just continued expanding, without anything much happening. –*A Brief History of Time* by Stephen W. Hawking.

We can say in the first and second days which were equal to our earthly days hydrogen and helium were created and were made stable.

In the 3rd and 4th days which were also equal to our earthly days some heavier matter were created for the solar system. At that time forces of attraction was very strong. Therefore, creation of some heavier elements was not unlikely.

In the 5th and 6th days which were equal to our earthly days the new born universe was made into seven skies. Smoke was distributed in all the skies. And the creation of the universe was completed.

As the skies had been expanding the gas concentrated into large clouds. Each cloud of gas turned into a galaxy. It took a long time.

In the 5th, 6th, 7th and 8th days matter of the Earth was collected and a due proportion in different kinds of matter was made, so that in future the Earth could become suitable for creatures.

In six days the universe was created. The Earth was also created in six days. In those two six days four days were common (as I have already described).

About 5 billion years ago when our galaxy formed, the Earth including the solar system fell in a suitable position in the galaxy. Then the short lived and long lived radio-active matter like uranium was thrown on the Earth. Therefore radium-thorium test shows that the age of the Earth is 4 to 5 billion years. Due to short lived radio-active matter the Earth melted. And as the Earth had different kinds of matter in proper proportion, in course of time it has become suitable for living creatures.

Therefore, we can also say that, may be the days of creation were equal to our earthly days. After creation, the universe and the Earth arrived at the present state through natural evolution which required long time.

Conclusion

Now we find creation in six days have different explanations because the Quran has not mentioned how long were those days? The Quran has not been sent to teach science. It is a book of religion. Something about the creation of the universe has been said, so that we understand the future of the universe and related day of final judgment, hell, zannat etc.

As the Quran has described the creation of the universe and the Earth, a measure of time had to come. At present we may ignore the measure of time but we should carefully analyze the verses of the Quran to understand how the universe was created. Otherwise we will not understand the future of the universe and related final judgment, hell, zannat etc.

One day human beings may know more about creation. Then they may understand what is 'six days'? Now scientists say that, with in a few hours of the Big Bang, all the matters (hydrogen and helium) of the universe were created. One day thay may have to say that : it was only with in six days of the Big Bang forces, energies, matters could be created, laws of the nature could be set and the universe could be organised to be, as we see it now.

Ref:

- a. *Al Quran the challenge* by Kazi Zahan Mia.
- b. *The Cambridge Atlas of Astronomy*.

CHAPTER SEVEN

Zannat

'*Zannat*' is an arabic word. After final judgment good people will be sent to zannat and bad people will be sent to the hell. *Zannat* is a place of ever lasting peace and joy.

In the Quran there are many verses which give description of zannat. Among those I quote a few:

"In them (each) will be two springs flowing (free). In them will be fruits of every kind, two and two. They will recline on carpets, whose inner linings will be of rich brocade; the fruit of the gardens will be near. In them will be chaste (Maidens), restraining their glances, whom no man or Jinn before them has touched. Like unto rubies and coral, -Al Quran 55 (50-58).

From the Hadith we know : In *zannat*, people will remain young forever. They will never die. The poorest person in *zannat* will get an area that will be ten times bigger than the Earth (The land is equivalent to the planet Jupiter in size). There are lot of other descriptions which I will not describe here. I will only write about the location of *zannat*.

According to Hadiths *zannat* is already created (Adam and Eve came to the Earth from *Zannat*). Is it located inside this universe (skies)? The universe is full of violent quasars, burning stars and planets with hostile environment. Here harmful radiation spread all around. Here 'time' runs ahead. Nothing can remain unchanged.

"All that is on it will perish. But will abide the face of thy Lord- Full of Majesty. Bounty and the Honour.

– Al Quran 55 : (26-27).

Whole universe will be destroyed. But according to Hadiths, *zannat* is already created and ever lasting. Therefore, it is not likely that the *zannat* is located inside this universe.

Location of Zannat

We know about *zannat* from the Quran. Therefore, knowledge about its location should also be gained from the Quran.

"Be ye foremost (in seeking) forgiveness from your Lord, and the *zannat* the width of which is as the width of 'skies and lands' (universe)" -Al Quran 57 :21

In this verse it is said that the width of *zannat* is equal to the width of the universe. If the width of *zannat* is equal to the width of the universe then *zannat* cannot be located with in the universe.

In the Hadith it is said that nobody other than Allah knows how big the *zannat* is?

From the descriptions of the Quran and Hediths it is clear that the *zannat* is bigger than this universe. Therefore, *zannat* can not be located with in this universe. *Zannat* is located at the outside of this universe. We can say that, at the outside of this universe there is another universe named *zannat*.

In the Hadiths many times this universe has been called 'seven layers of skies and lands' and the *zannat* has been called 'eight layers of *zannat*'.

"Praise be to Allah The Cherisher and Sustainer of the worlds (universe and *zannat*). Most Gracious, Most Merciful. Master of the day of judgment".

–Al Quran 1 : (2-3)

Appearance of *Zannat*

The universe, where we are presently living is composed of millions of galaxies full of stars and other objects. In the same way the other universe (*zannat*) is composed of many peaceful planets. Those planets harbours beautiful gardens, springs, chastes (maidens) etc. described earlier. One or two of those planets will be given to a single man. In this regard clear indication is given in the following Hadiths .

"Martyres lives in the *zannat* located under *Arsh*, which look like bright stars from the seventh sky"-Hadith

Prophet Muhammad (sm) said, "In *zannat* people at the lower level will observe the higher, the way you see rising star in the Eastern or Western corner of the sky."

-Bukhari Sharif.

Now we live on the Earth. We see the planet Mars like a star. In the same way, in *zannat* a person living in one planet will see other's planet like a star. Therefore, these Hadiths indicate that the *zannat* is composed of many peaceful planets.

According to the Hadith those planets of *zannat* are scattered in eight layers of space. Each layer has a name. Those are as follows:

1. *Zannat-ul-Ferdaus.*
2. *Zannat-ul-Nayeem.*
3. *Zannat-ul-Mauwa.*
4. *Zannat ul-Makam.*
5. *Zannat-ul-Karar.*
6. *Zannat-ul-Salam*
7. *Zannat-ul-Adan.*
8. *Zannat-ul-Khuld.*

I have described that, this universe is composed of seven spherical layers of space called seven skies. One layer surrounds

the inner layers, the way white part of a boiled egg surrounds the inner red part. Layers of *zannat* are not alike. One layer of *zannat* does not surround the other. Layers of *zannat* stand side by side but one little higher than the other (like staircase). As it is said in the Hadiths :

"Layers of *zannat* are placed like staircase".-Hadith.

This indicates that one layer of *zannat* is located beside another. There must be millions of peaceful planets in each layer of *zannat*.

Summary

At the out side this universe there is another universe named *zannat* that is full of peaceful planets.

CHAPTER EIGHT

Fire of Hell

I have discussed that at the outside of this universe there is another universe named *zannat*. Hell is not like that. This whole universe will turn into hell after final judgment. Seven layers of 'skies and lands' will turn into 'seven layers of hell'. At present fire of hell is being prepared in this universe. That means, this universe is preparing itself to become hell after final judgment.

The hell is not yet fully prepared. It is in the process of preparation. That is why, when Prophet Muhammad (Sm) observed hell during '*Miraz*' he was shown the future state of it. He saw people getting punishment in the hell through we know, still nobody is thrown into hell. That means, he was shown the future state of hell. But when he visited *zannat* he saw it, as it was at that time. He did not see any human being in the *zannat* because still no body has gone to *zannat*.

Hadith : "During *Miraz* I saw in seventh sky that, there was thunder and roaring sound and a group of people. Their bellies were as big as houses. In those, there were many snakes which were being seen from the outside. I asked to Zibrael, "it is the scene of which kind of people"? He said, "It is the scene of those who will take interest by lending money"—Bukhari Sharif

One can read detail description of *Miraz*, when Prophet Muhammad oberved fire of hell in all the skies.

Objects of hell are being prepared in this universe (skies and lands). On the day to final judgment this universe will turn into hell. How this universe will turn into hell I will describe in the article named 'The Day of Final Judgment'. In this article I will only describe how the objects of hell are being prepared in this universe.

Where is The Fire of Hell

"Behold. In the creation of the 'skies and lands' (universe). And the alternation of night and day- there are indeed signs for men of understanding. Men who celebrate the praises of Allah, standing, sitting, and lying down on their sides and contemplate the creation in the skies and lands "Our Lord! not for naught hast Thou created this! Glory to Thee! Give us salvation from the penalty of the fire (Hell)." -Al Quran 3 : (190-191)

So we find, if anybody think on the creation of the universe (skies and lands) deeply he has to pray for the salvation from the fire of hell. Therefore, the verse indicates that the fire of hell is being created in this universe. In the universe there are many kind of objects. A particular kind of object holds the fire of hell. This is said in the following verses.

The Quran

1."And We have adorned the lowest sky with lamps (stars)..."

-Al Quran 67 : 5

2. "...Have made such missiles to drive away the satan."

-Al Quran 67 : 5

Explanation

1. There are many stars in the lowest (inner most) sky.

2. In this lowest sky there are many smaller objects like asteroids.

3. "...And have prepared for them the penalty of the blazing fire of hell."

-Al Quran 67 : 5

4. "For those who reject their Lord is the penalty of Zahannam (Name of the lowest hell): And evil is the destination."

-Al Quran 67 : 6

From the above mentioned verses we come to know, what all are being created in this innermost region of space (lowest sky). Fire of hell is being created here. Normal stars and planets will be thrown into the objects which hold the fire of hell. As it is said in the Hadith:

"After final judgment the Sun and the Moon will be thrown into hell." – *Mashnad-i-Ahmed.*

Then the matter of stars and planets will be the fuel of hell.

In the same way all the skies will turn into hell. The whole universe (or seven layers of skies and lands) will turn into 'seven layers of hell'. Each layer of hell has its name. Those are as under:

1. *Habia*
2. *Laza*
3. *Hotama*
4. *Sayeer*
5. *Sakkar*
6. *Zahim*
7. *Zahannam*

Identification

Now we will identify the objects that hold the fire of hell. It is indicated in the following Hadith:

3. In this lowest sky fire of hell have been prepared.

4. This region of space which we are calling lowest sky, will be called Zahannam after final judgment.

"After burning the fire of hell for thousand of years it becomes red. Again, after burning thousand of years it becomes white. Then, after burning thousand of years it becomes dark black and remains in that state"-*Tirmizi*.

This Hadith requires scientific explanation to understand what it really indicates? For ease of explanation, I will divide the Hadith into three part as under.

a. First Part of the the Hadith:

"After burning the fire of hell for thousand of years it becomes red."

b. Second part of the Hadith:

"Again after burning thousand of years it becomes white."

c. Third part of the Hadith:

"Then after burning thousand of years it becomes dark black and remains in that state."

First Part of The Hadith and its Explanation

"After burning the fire of hell for thousand of years it becomes red" — Some of the big stars gradually turn into fire of hell. Stars are mainly composed of hydrogen and helium bounded by gravitational pull. Gravity tries to contract the star toward the centre. As a result tremendous pressure develops inside the star. Pressure increases temperature. This temperature and pressure initiate fission reaction in the core of the star. Therefore, more heat is produced. Heat tries to expand the star. In one hand gravity tries to contract the star, on the other hand heat tries to expand the star. This brings a balance. Without this balance a star can not last long.

If the star is small, pressure developed due to gravitational pull will be less. It cannot initiate fission reaction. As a result the star collapse indefinitely. If the star is too big, more pressure generate more heat so that the star burns rapidly and in some cases may explode.

A lasting star burns for millions of years at the same time due to nuclear burning process new elements are produced in the core of the star. Hydrogen burns to helium. These helium being heavier than hydrogen deposite in the core. In later stage hydrogen burns in a shell, rather like an egg shell, surrounding the core of helium. The shell of burning hydrogen continue dumping helium onto the core, building it up progressively with supplies of more and more helium.

When helium core reaches to a critical mass the core collapse and outer hydrogen layer expands stretching out in space. Size of the outer layer increases about hundred times. At this stage the stars are called 'Red Giants'.

Due to the collapse of the helium core fission reaction set on again for which new elements are produced. Helium burns to oxygen and silicon.

"At first, hydrogen burns in a shell, rather like an eggshell, surrounding the, core of helium left behind by the main-sequence burning stage. The shell of burning hydrogen dumps its 'ashes' on to this core, building it up progressively with supplies of more and more helium. But the core, with no energy sources of its own, cannot grow indefinitely. When it reaches to a critical mass the centre collapse and the outer layer of the star expands stretching out into space and growing in size one hundred fold. The central region continue trying to disappear down to a central point, collapsing towards higher densities and increasing in

temperature, untill the centre becomes hot enough for helium to ignite and undergo fission reaction which yield more complex elements, principally carbon and oxygen. Thus helium formed as the ashes of hydrogen burning becomes the fuel for the next chapter in a star life, the Red Giant State.— *The Life and Death of Stars* by Geoffray Bath.

So we find, a massive star after burning for a long time arrives at a state called 'Red Giant State' This is said in this part of the Hadith: "*After burning the fire of hell for thousand of years (a long time) it becomes red.*"

Second Part of Hadith and its Explanation

"Again, after burning thousand of years it becomes white." — In the Red Gaint of a massive star helium burns and produce oxygen and carbon. Oxygen and carbon being heavier than helium deposite in the core.

Collapse of the new core sets on at certain state. Collapse continue untill the temperature is high enough to initiate fission reaction. When fission reaction begins it produce new heavier elements. Carbon and oxygen burns to silicon.

This cycle of producing new elements continue one after another untill the core of iron is produced in a star.

"The ignition of helium is only the first in a whole series of stages in which more complex nuclei are successively burnt. As each nuclear fuel is burnt out and exhausted in the centre, collapse of the inner core sets in again. Collapse continue untill the temperature is high enough for the ashes of the previous burning stage to ignite. Helium burns to carbon and oxygen, carbon and oxygen burn to silicon, silicon burns to iron".— *The Life and Death of Stars* by Geoffray Bath.

When iron is forged in the centre of a star with surrounding shells of silicon, oxygen, carbon, helium and hydrogen, end of the road is near.

"What halts the sequence of burning to even more complex nuclei? At the point when iron is being forged in the centre of a massive star, with surrounding shells of silicon, oxygen, carbon, helium and hydrogen, the end of the road is near. When the iron core collapse there is no hope of a new reaction stepping in, to save the star, for it is not possible to fuse iron into more complex element (such as unanium) and release energy at the same time. Indeed elements much more complex than iron, have a tendency to undergo fission, splitting apart spontaneously into less complex elements.— *The Life and Death of Stars* by Geoffray Bath.

When fission reaction stops, the iron core gradually collapse due to its gravitational pull. However, when matter is squeezed to such densities that a glass of matter would weigh several tons - the electrons starts to exert a special kind of pressure. They become 'degenerated' and as long as the star is below a critical mass, refuse to be squashed further. A star at this stage can cool without collapsing since the electron pressure can hold the star up against gravity. These are called 'White Dwarfs'

White Dwarfs are common stellar remnants. These are compact stars slowly cooling off in space. Normal gas at its surface heat up when it is squeezed. This leads to series of nuclear burning reaction in the outer layers.

So we find, after burning for a long time, red giant arrive at a state called white dwarf. And in the second part of the Hadith it is said, "Again after burnig thousand of years it becomes white."

Most of these objects are white. A few may turn blue if temperature increase and may turn yellowish if temperature decreases.

Third Part of the Hadith and its Explanation

"Then, after burning thousand of years it becomes dark black and remains in that state."—

White Dwarfs radiate and gradually cools off in space. At the same time due to immense gravitational power the star squeeze to extremely higher densities. In the atoms the electrons and protons bind together and become neutrons. At this state the star is called Neutron Star. Collapse stops if the weight of the star is less than three solar masses. Because the gravitational force provided by a star that have weight less than three solar masses is not powerful enough to squeeze a Neutron Star.

"The white dwarfs cools off in space and becomes steadily fainter and fainter as they slowly freeze. Eventually they form completely dead stellar stumps. In atoms electrons and protons are crushed together even more than they are in a white dwarf. They bind together forming neutrons. Neutrons exert their own 'Neutron Degeneracy Pressure' which is even more powerful than that of electrons. It is able to support a star of up to three solar masses . A neutron star with the mass of the Sun would be about the size of Manhattan". – *The Life and Death of Stars* by Geoffray Bath.

If a star originally possess more mass than the mass of 3 Suns its gravitational force can overcome neutron degeneracy pressure and the star squeeze further.

Some neutron star having less mass than three solar masses grasp matter from surrounding space (if available). When its weight increases its gravitational force overcome neutron degeneracy pressure and the object squeeze further.

Due to intense gravitational force the outer layers of the star where some nuclear reaction were still going on, suddenly fall downwards. The gas suddenly become extremely compressed and become over heated. Reaction rate increases tremendously. As a result outer layers of the star may explode. These explosions are called 'Super Nova Explosion' when more complicated elements like gold, silver, uranium etc. are produced. Due to the explosion all the elements produced in star throughout its life and were deposited in the outer layers fling out into space. Different elements we find on the Earth were produced inside some star in this way.

Core collapse and produce blackhole.

"The collapse continues indefinitely. All the matter showers into a central point, squashed by gravity to infinite density and form a blackhole. Densities are reached which are so enormous that light itself cannot escape from the surface. With the increasing strong gravitational fields associated with the increasing density the velocity needed for escape increase. Eventually a stage is reached at which this escape velocity is greater than the velocity of light. Nothing can escape, then or even after (escape velocity of the Earth is 7 miles per second). The collapsing star disappears behind an impenetrable horizon, the Event Horizon, and is hidden forever from our eyes".— *The Life and Death of Stars* by Geoffray Bath.

From above description we find, in next phase, a white dwarf may turn into a blackhole. This is the end of their life. This is said in the third part of the Hadith."Then, after burning thousand of years it becomes dark black and remains in that state".

Now, at the end we find, three most important steps taken by the fire of hell are similar to three most important phases of star life.

Hadith

1. Part 1: "After burning the fire of hell for thousand of years it becomes red".
2. Part II : "Again after burning for thousand of years it becomes white".
3. Part III: "Then after burning for thousand of years it becomes dark black and remains in that state".

Science

1. After burning for a long time a star comes to a state called Red Giant State.
2. Red Giants burn in the space for a long time and come to a state called White Dwarfs.
3. White Dwarf radiates for a long time and at the end turn into Black Hole. And remains in that state forever.

So, the Hadith gives a clear indication that the blackholes are the fire of hell.

All the stars cannot cross all three stages. The stars having less mass possess less gravity. Therefore, they burn slowly for a long time. When helium is deposited in the core its amount is so less that its gravitational force cannot initiate fission reaction; life of the star ends at that state.

Basing on the quantity of matter some of the stars end at Red Gaint state, some end at White Dwarf state. Only a big star can turn into Black hole at the end. However, if a smaller star can grasp enough matter from surrounding space may eventually turn into a black hole at the end.

"And We have adorned the lowest sky with lamps (stars) have made such missiles to drive away satan and have prepared for them the penalty of the blazing fire of hell (black holes)" - Al Quran 67 : 5

Objects of Hell

At this stage of description following doubts should arise:

1. According to Hadith, the hells should be full of fire and heat but theoretically blackholes are extremely cold.
2. According to the Quran and Hadith, stones and iron are the fuel of the hell, but in the blackholes stones and iron do not exist.
3. Hadith:

"Boundary of the hell will be four thick barriers of fire.
Width of each barrier will be a distance of 40 years"

—Tirmizi.

Now one may ask, can there be barriers of fire in black hole?

4. Hadith:

"On the day of final judgment, the Sun and the Moon will be thrown into hell"—Mashnad-i-Ahmed.

Now question will arise, can stars and planets be thrown into a blackhole? And what happens if it is thrown?

To get the answers of the above mentioned questions, one has to proceed further to know, how a complete 'Object of Hell' is produced. Actually blackholes are the foundation or the pivots of the 'objects of hell'. It cannot produce heat unless fuel is given. According to the Quran and Hadith, stones and iron are the fuel of hell. Those are being produced in the normal stars. Now we are to know what happens if an amount of matter (the fuel) is thrown in to a blackhole.

With immensely powerful gravity, blackholes pull the surrounding objects. It tears material from surrounding stars. Some times may suck off whole star. Even a blackhole produced in a galaxy may squeeze the whole galaxy.

A small amount of matter falling into a black hole could quietly slip into it without a large release of energy. But if the

amount of matter is huge, black hole cannot absorb all the matter immediately.

"But if the mass of several million stars is compressed around it, there will be a massive pile up of material- gas, dust and even whole stars- sucked in by the intense gravity field but unable to squeeze immediately into the tight 'throat' funnelling down into the hole".—*The Life and Death of Stars* by Geoffray Bath.

Inside the collapsing material blackhole rotates in a tremendous speed winding its strong magnetic field around itself. Due to this rotating magnetic field, material coming from outside cannot suddenly fall on to the blackhole. It spreads a blanket of infalling material in the plane of rotation, like the ring of Saturn but on a vastly greater scale. The swirling matter then release energy due to friction.

"A central blackhole surrounded by a swirling mass of material which is constantly being fed from outside and heated up by collision. These are called 'Quasars'. As much as 20% of this whirlpool mass can be turned into energy. This is how a quasar can shine for a hundred million years or more while devouring the heart of a galaxy".—*The Life and Death of Stars* by Geoffray Bath.

Blackholes without a supply of material quietly sits in the space.

"Quasars come in a variety of shapes and size, sometimes with a radio structure spreading across millions of light years, but all of them deriving their energy from some tiny central source (blackhole), which may produce bursts of energy upto ten thousands times the energy of all the stars in our Milkyway galaxy put together. Einsteins most famous equation $E=mc^2$ tell us how much energy could be obtained by converting all of a mass into energy and assuming that only a fraction of this mass-energy

is being liberated in the quasars. We know that the total mass involved must be much more than a million times the mass of the Sun. Yet it is typically squeezed with in a volume of space no larger across than our solar system, the size of the largest stars. Such an object can only be a giant blackhole. But blackholes in theory, absorb radiation; they cannot shine as the brightest phenomena in the universe. But there is no paradox. It is not the quasar that shine; it is the matter arround it".*-To the Edge of Eternity by John Gribbin.*

"Inside the blackhole, the mass must, according to the equations continue to collapse into a mathematical point, the mirror image of the explosion outward from a mathematical point that is at the heart of the Big Bang model but that bizarre pattern of events is beyond our observation. All we can know about directly is what is happening at the edge of the blackhole, where any passing material will quickly be swallowed up in the maelstrom, a kind of gravitational whirlpool in space. The swirling mass then release energy due to friction". *-To the Edge of Eternity by John Gribbin*

"The whole picture hangs together in a throughly satisfactory way, given the reality of blackholes and the efficiency with which gravity can turn a million or so solar mass into energy. Of course, the energies are like nothing we experience on the Earth. But why should they be? The universe is not only much bigger than we can really imagine, it is unimaginably more violent than any thing conceived of only a few years ago".*-To the Edge of Eternity by John Gribbin.*

Summary

From a verse of the Quran (Surah Al Mulk-5) we found, fire of hell is being produced in the skies. To identify the objects we took the help of Hadiths and found that the blackholes are those objects

which hold the 'fire of hell'. But in theory blackholes are immensely cold, so we proceed further and found that a single blackhole when turns into a quasar can produce bursts of energies up to ten thousands times the energy of all the stars in our Milkyway galaxy (100 billions stars) put togather.

Now we may develop an idea that the blackholes produce fire of hell when fuel is given. According to the Quran and Hadith fuel of hell are stones and iron. These fuels are being produced in the normal stars. Those stars will be thrown into blackholes to produce the fire. Few more Hadiths including those discussed earlier are given below to confirm the idea.

Fire of Hell

1 According to the Hadith, Fire of hell is produced through three phases—

- a.. After burning thousand of years it becomes Red.
- b. Again after burning thousand of years it becomes white.
- c. Again after burning thousand of years it becomes dark black, and remains in that state.

2. Hadith: "From the hell if a bucket of waist is thrown on the Earth, definitely the Earth will be destroyed"

Black hole/Quasar

1. According to science blackholes are produced after three phases of a starlife.

- a. Red Giant State
- b. White Dwarf.
- c. Blackhole

2. A bucket full of material that can destroy the Earth is only available arround the blackholes.

3. According to the Quran and Hadith, fuel of hell are stone and iron.

4. Hadith : "After final judgment the Sun and the Moon will be thrown into hell."

5. "So verily I call upon to witness the the point of fall where the stars are destroyed".

-Al Quran 56 : 5

6. Hadith: "Boundaries of hell will be four thick barriers of fire and the width of each barrier will be a distance of 40 years."

7. "And We have adroned the lowest sky with lamps (stars), have made such missiles to drive away the satan (asteroids) And have prepared for them the penalty of the blazing fire of hell". -Al Quran 67 : 5

3. It is only black hole which can use iron as fuel. Other than the blackholes there is nothing in the universe which can use iron as fuel.

4. Stars, Planets etc. can be thrown in to the blackhole. If those are thrown, black holes produce energy.

5. Those points of fall are the blackholes where stars may fall. The matter of the destroyed star then swirl arround the blackhole and produce energy.

6. Matter swirling arround blackhole may be divided into four layers due to the magnetic field. Like the planet Saturn that has two rings.

7. Those 'objects of hell' which are being produced in the sky are the black holes. The verses of the Quran and a few Hadiths discussed so far confirm the idea.

Conclusion

Blackholes not only produce quasars, they can also turn a galaxy into a violent one. It seems that every galaxy harbour blackhole at its centre. Blackhole gradually squeeze the galaxy and grasp a continuous supply of matter. Matter swirl around the blackhole at a violent speed and produce extremely high energy which keeps the whole galaxy in a violent state.

"The classic examples of exploding galaxies are called Seyfert galaxies. These galaxies was first identified in 1943 by Carl Seyfert, after whom they are named. He found that about one percent of all spiral galaxies have very insignificant spiral arms but very bright central regions. Such systems have now been studied across the spectrum. The observation shows that the radiation of the nucleus is produced by hot gas in violent motion with a central condensation, concentrating the mass of millions of Suns in a small volume. – *The life and Death of Stars*, by Geoffray Bath.

More violent galaxies are called N-galaxies (intermediate between quasars and Seyferts). The difference are simply due to the difference in amount of matter that is available in the central blackhole. As more and more material is swallowed up in the nucleus, more and more violent the galaxy turns into.

"Behold! In the creation of the skies and lands and the alternation of night and day-There are indeed signs for men of understanding. Men who celebrate. The praises of Allah, standing, sitting and lying down in their sides, And contemplate the creation in the 'skies and lands': Our Lord! not for naught hast Thou created this! Glory to Thee? Give us salvation from the penalty of the fire of

hell. "Our Lord! any whom Thow dost admit to the fire, truly Thow coverst with shame, and never will wrongdoers find any helpers." -Al Quran 3 : (190-192)

So, if one think on the creation of the universe, one will understand the objects of hell. In other words, objects of hell lie in the universe. It is to be mentioned that the quasars are probably the most violent objects of hell. All the objects of the hell are not likely to be same.

The degree and nature of punishment will be different for different sinners. Therefore, objects of hell must be different. There are many galaxies in the universe. They may possess different types of planets with hostile environment where sinners will be thrown. We also know about the existence of poisonous snakes and insects in the hell. Those poisonous snakes and insects may originate in those planets.

Whole universe will turn into hell. Therefore, there are supposed to be innumerable varieties of objects. Here I have only described the most violent objects of the hell on the basis of the indications given in the Quran and Hadith. Those are quasars.

"Most quasars must now be dead, their central blackholes starved of matter to swallow up and turn into energy, so they sit quietly at the centre of galaxies. Some like Centaurus A, are dying; Some holes never quite got enough mass together to become quasars but have had active past. The universe is a violent place, but less violent then it was, and getting less violent still as time goes by, will it fed away into an ever expanding sea of ever quieter galaxies, with the light of the stars and galaxies going out one by one untill all that is left is a void filled with a scattering of blackholes? Or, some more interesting fate is prospect"? -*To the Edge of Eternity* by John Gribbin.

"We created not the skies and lands and all between them merely in (idle) sport. We created them not except for just ends: But most of them do not understand. Verily the day of sorting out is the time appointed for all of them".

-Al Quran 44 : (38-39)

In the Quran we find that the fire of hell is being created in this universe. To identify the fire of hell we took the help of the Hadiths and found that the black holes produce fire of hell if fuel is given. According to the Quran and Hadith iron and stones are the fuel of hell which are being produced in the normal stars. Things required to produce the objects of hell are being created in this universe. Real objects of hell will be created after final judgment.

Ref:

1. "The Life and Death of Stars"— Geoffrey Bath, in *The Encyclopedia of space Travel and Astronomy* edited by John Man.
2. 'To The Edge of Eternity'— John Gribbin, in *The Encyclopedia of space Travel and Astronomy* edited by John Men.

CHAPTER NINE

Two Intelligent Creatures for Two Universes

There are two intelligent creatures. One is human being and the other is *zinn*. About *zinns* I will write later.

We fall in the group of human being. Adam and Eve, the first man and woman were created in zannat and passed their initial life in zannat. It may imply that the mankind is created for zannat. After final judgment whole mankind is suppose to go back to zannat. But some people will be thrown into hell for their sin.

Another group is called *zinn*. *Zinns* are also an intelligent creature like us. On the day of final judgment, only the *zinns* and the human beings will be tried. *Zinns* are made of souls and heat/heated gas. We cannot see them because their body is made out of heat/heated gas. *Zinns* can move from one star to another. Since their body is made out of heat/heated gas, they are suitable for this universe which is full of burning stars. *Zinns* were created in this universe. Therefore, we may say that *zinns* are created for this universe.

Long ago, when Adam and Eve did not come to the Earth, number of *zinns* increased in this universe to a great extent. At certain stage they became disobedient to Allah. Allah sent angels to destroy them. Almost all the *zinns* were killed at that time.

There was a ten years old *zinn* named Azazel. Looking at that child *zinn*, angels felt pity and took him to Allah. He was grown up and gradually became the leader of the angels. He had free access in zannat.

Adam and Eve were created in zannat. Allah then ordered all angels to bow their heads to Adam. All angels did so but Azazel did not. He denied to obey the order of Allah. Therefore, was cursed and was given the name 'Satan'. Satan in return of his long time prayer asked the ability to get inside human body and provoke him. Allah gave him (Satan) the ability to do so. Then Satan promised that he would not let any human being return to zannat (Satan, due to his knowledge knew that, at certain time Adam and Eve would be sent to the universe). Satan was thrown out of zannat. Subsequently he managed to enter into zannat and provoked Adam and Eve to eat forbidden fruit. Adam and Eve ate forbidden fruit. Therefore, Adam and Eve were also thrown out of zannat. All of them came to this universe.

From the Hadith we know that at present satan is not one. Satan, who provoked Adam has many followers. Those followers are also *zinns*.

"After each human being there is a satan who is a bad *zinn*." – Hadith.

That satan enters into human body and always provokes the man to do sinful deeds. The man or woman who works on the provocation of satan gradually becomes unsuitable for zannat.

Therefore, we find, a bad *zinn* (satan) is always trying, so that the human being of his concern fails to go to the zannat. We are to think, why he is doing that?

"A man is like a horse whose back never remains vacant, either Allah is riding on him or the satan." – Hadith.

Now question will definitely come, why should the satan (a *zinn*) ride on a human being? Not only that he is always trying to his best, so that human being of his concern fails to return to the zannat. It is not only because of the reason that, those bad *zinns* have become the followers of original Satan (Azazil). I think, they get some definite benefit by doing that. What is that benefit, I will describe a bit later.

Existence of Zinns

A bad *zinn* (a satan) is always after a human being to provoke him in evil deeds. But we can never see them. Our instruments cannot prove their existence. It is said that, they are created out of heat or heated gas. In that case, they are likely to be detected. Because, though we do not see energy or heated gas, we can prove their existence by instruments. But such creature could not be detected so far. Still, one can not totally disbelieve their existence if one puts a wider scientific view.

Stephen W. Hawking in his famous book writes : "We now know that every particle has an anti-particle, with which it can annihilate (In case of the force carrying particles, the anti-particles are the same as the particles themselves). There could be whole anti-world and anti-people made out of anti-particles. However if you meet your anti-self, dont shake hands! You would both vanish in a great flash of light." – *A brief History of Time.*'

Of course I do not want to say that *zinns* are our counter part. By quoting the lines from '*A Brief History of Time*' I just want to mention that, if this idea is scientific then the idea of the *zinns* is not a unscientific one.

In this universe, there may be different kinds of gravity, different kinds of matter and energies. One may not at all

disturb other. There may be many dimensions. Each set of dimensions may possess an universe of its own. We will never feel the existence of those who lives beyond the sensible horizon of us and of our instruments. The universe may be a three in one universe - one is for angels, one is for *zinns* and one is for human beings.

Benefit of *Zinns*

Human body and soul provides a link with the world in other dimensions. Human being is created as such, so that he can be a home of God.

If a *zinn* is riding on a human being, the human being unknowingly opens up the human horizon to that *zinn*. Human horizon is more beautiful, charming and joyful. Therefore, a bad *zinn* (satan) always try, so that human being of his concern fails to go back to zannat. To achieve that, he provoke human being, to do evil deeds. Our earthly life is dedicated to develop our soul. The man who leads his life according to the provoketion of satan, normally holds a satan in him. As a result, the soul of that human being donot develop properly. His soul becomes suitable for the universe, not for zannat. Therefore, after final judgment the man will be left in this universe. The universe, which is basically a region for the *zinns* and for the left human beings it will be hell.

Summary

There are two universes. One is this universe, another is zannat. It seems, *zinns* are created for this universe and human beings are created for zannat.

CHAPTER TEN

General Appearance of the Total Creation

In light of the Quran and Hadiths there are two universes; One is *Samawat-wal-Ard* (Universe) another is Zannat.

Some of the scientists are also thinking about parallel universe.- "*There could be whole anti-world and anti-people made out of anti particles—A Brief History of Time*" by Stephen W. Hawking. If zannat is world for us then the universe is anti-world. This universe possibly contains more anti-matter than matter.

Allah is the owner of two universes. In addition Allah has also created *Kursi*, *Arsh*, *Lawh-Mahfuz*, *Araf* and *Pul-Surat*. I have written about universe, zannat and *Lawh-Mahfuz*. To get a complete idea one has to know something about *Kursi*, *Arsh*, *Araf* and *Pul-Surat* also.

Kursi

Kursi is the seat of honour. It is the throne of Allah. It is extended throughout the universe also.

".... *His Kursi do extend over the skies and lands (universe)*". —*Al Quran 2 : 255*

Arsh

Arsh is the throne of authority. It is like a head quarter from where events of the universe and zannat is controlled. *Arsh* is very big.

Prophet (sm) said, "Compared with the *Kursi* the whole world is as little as a ring thrown upon a desert. Similarly, compared with the *Arsh* the *Kursi* is as little as

a ring thorwn upon the desert."—Tabari, Tafsin 3.77.

Arsh extends over the universe and zannat.

"All zannats have single roof, that is the Arsh of Allah"

—Hadith.

Lawh-Mahfuz is located in *Arsh*.

Sidratul-Muntaha is located below the *Arsh*, *Sidratul-Muntaha* is a tree and linked with the *Lawh-Mahfuz*.

"Whatever comes down from up - comes to *Sidratul-Muntaha* and whatever goes up from down - goes to *Sidratul-Muntaha*"—Hadith.

During '*Miraz*' Prophet (sm) saw, like insects thousands of angels were falling on the *Sidratul-Muntaha*. According to Hadith an angel can go to *Sidratul-Muntaha* once in his life time. Through *Sidratul-Muntaha* *Lawh-Mahfuz* task the angels (at *Sidratul-Muntaha* angels are programmed according to the commands of *Lawh-Mahfuz* to perform a particular task). From the foot of *Sidratul-Muntaha* four channels are following. Two are flowing towards the world and two are flowing towards the zannat. Tasked or programmed angels moves through the channels for their destination to perform the task.

Allah has extended His power through *Arsh*. He controls the universe and zannat through *Arsh*. Therefore, other than *Lawh-Mahfuz* and *Sidratul-Muntaha* there may be many thing in *Arsh* which is beyond our knowledge and imagination.

Al Quran

1. "Allah is He who raised the skies without any pillars that ye can see."

-Al Quran 13 : 2

Explanation

1. Matter possess force of attraction so that stars, planets and galaxies can form. Therefore, the universe could not expand. Allah has expanded the universe and sustained it against the gravity without any pillar (as we see).

2. "Then He established Himself on the *Arsh*;"

- Al Quran 13 : 2

3. "He has subjected the Sun and the Moon (to his Law). Each one runs for a term appointed."

- Al Quran 13 : 2

4. "He does regulate all affairs, Explaining the sign in detail That ye may believe with certainty in the meeting with your Lord."

- Al Quran 13 : 2

2. After the universe was expanded to an extent, Allah established Himself on the *Arsh*.

3, Allah has subjected universal objects and affairs to the fixed laws (natural laws). Each one runs at its own for a term appointed.

4. Allah has subjected universal objects and affairs to His fixed laws but at the same time He regulates the affairs. That means He regulates the affairs keeping the fixed laws unchanged.

Description regarding the control of universal objects and affairs has come after it is narrated that Allah established Himself on the *Arsh*. It means. Allah control universal objects and affairs through *Arsh*.

Allah controls the universe through *Lawh-Mahfuz*, *Sidratul-Muntaha* and angels. This does not mean that He is dependent on those. He Himself is capable to control everything. He has created the system because, He likes to control through such system. We should also consider how a most intelligent and most powerful Creator may work. He may not run after every creature for their day to day well-being. He has created the nature which can harbour the creatures. Creatures also do their bit to maintain themselves and to maintain the nature. And

everything was written in *Lawh-Mahfuz* which monitors. Sometimes angels are required to control. Angels also feedback information to *Lawh-Mahfuz*. However Allah knows everything. He is present everywhere, even the smallest creature is not neglected to Him.

Somebody think that *Arsh* is the seat of Allah. Actually it is not. *Arsh* holds *Lawh-Mahfuz* and may be some other systems. Allah has extended His power through *Arsh*. That means *Arsh* is like a Headquarters. Since *Arsh* hold sophisticated *Lawh-Mahfuz* and control systems, eight angel hold it on their shoulder. They will keep it on their shoulders on the day of final judgment also. Seat of Allah is called *Kursi*. *Kursi* is extended in the universe also. It is not held by angels.

Araf and Pul-Surat

Araf means elevated place. It is the region between universe and zannat. This region (*Araf*) has kept universe and zannat away from each other. Probably this is a space with different nature. According to Hadith *Araf* is totally dark.

Pul-Surat is a bridge or a path or a passage which will be placed through *Araf* on the day of final judgment. After final judgment human beings will move to Zannat through *Pul-Surat*. *Pul-Surat* is not a normal path. Somebody will cross it at the speed of light, somebody will cross at a slower speed .Last person will require 25,000 years to cross the *Pul-Surat*. Somebody will see it wide and safe, somebody will see it narrow, rolling, dangerous and dark.

Conclusion

There are two kingdoms of Allah. One is eight layers of zannat and the other is seven layers of skies and lands (the universe). Whole creation may be compared with a peacock. *Lawh-Mahfuz* is its head, *Sidratul-Muntaha* is its throat, universe is its legs, *Kursi* is its body, *Arsh* is its wings, Zannat is its tail.

At the end, this universe will collapse into a Singularity (Big Crunch). At that time planets of zannat will come near to the Big Crunch but will not fall on it, because there is a space in between, called *Araf* which does not allow anything to pass through. Probably due to the existence of *Araf*, planets of zannat will stay little away from Big Crunch and will not be destroyed. In zannat every thing has a better control. Therefore its planets will not also collide with one another. Like zannat *Arsh* and *Kursi* will also come near to the Big Crunch.

CHAPTER ELEVEN

Future of the Universe

The past, the present and the laws of the nature should tell us where the universe is heading to. But there are many information which are not known. Yet scientists do not know the volume of the universe and amount of matter in it. Scientists are yet to develop a clear idea on gravity which might have determined the large scale structure of the universe. Still scientists could not develop a clear idea on 'time'. Information basing on which the future course of the universe should be predicted are not clearly known. Therefore scientists give different ideas about the future of the universe.

Basic ideas on the future of the universe are two. Those are as follows :

- a. Open Universe.
- b. Closed/Oscillating Universe

Out of these two likely courses, one is supported by the Holy Quran. We will see, which one the Quran supports and discuss that in detail.

Open Universe

I have described in Chapter one (*Origin of the Universe*) that the universe originated from a 'Big Bang'. The universe is still expanding. All the galaxies are receding from one another. The universe may be compared with a inflating balloon that burst at

the end and the torned pieces are spreading all around at a shooting speed. Each torned piece can be compared with a galaxy.

Will the universe expand forever? The answer is not yet known. Universe may expand forever. If the universe expand for ever, after a long period of time the galaxies will be so much apart from each other that the universe will not exist as an unit. Galaxies will be lost in infinite space. Stars will die. Much of the matter will disappear through blackholes at great distances. The universe may continue to expand forever. In that case, it is Open.

"And what is the fate of the universe? It is possible that the beginning can only be explained by a 'rediscovery of God' and the end will be infinite dissipation in an infinite void". —*To the Edge of Eternity* by John Gribbin.

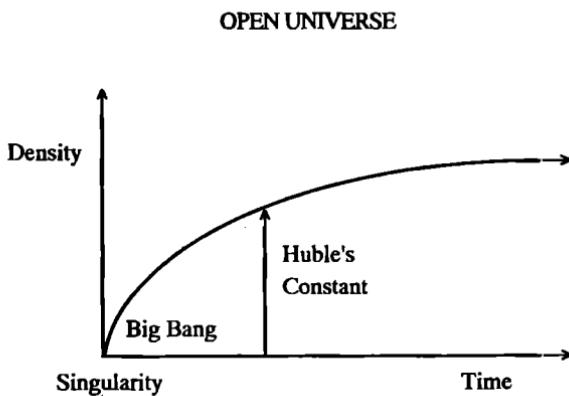


Fig 14. Open Universe

Closed/Oscillating Universe

But the situation may be different. We know, all the objects in the universe pulls each other by their gravity. As for example the

Earth pulls the Moon by its gravity. The Moon also pulls the Earth. But they cannot come to each other, because due to the rotation of the Moon around the Earth a centrifugal force acts which keeps the pull of gravity neutralised.

The galaxies are also pulling one another by their gravity. But they cannot come towards one another. Because the universe probably started from an original explosion of Big Bang. A force of expansion is working against the gravity throughout the universe.

But gravitational force is always trying to stop the expansion of the universe. If gravity wins over the force of expansion the recession of the galaxies will gradually slow down and finally will stop. The expansion of the universe will come to an end. Then, due to the same gravitational pull the galaxies will start coming towards one another. The universe will begin to contract. At the end of the contracting phase all the galaxies, with all of their stars and other objects will fall on one another at the centre of the universe. All the matter of the universe will be united.

CLOSED UNIVERSE

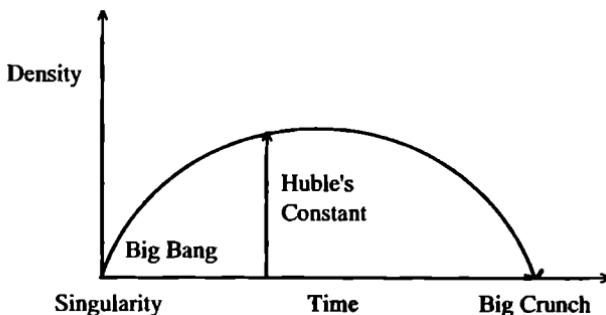


Fig 15. Closed Universe

"For, just as galaxies are combined by the attractive force of gravity; the total mass of the whole universe provides an insistent tug on every galaxy and cluster of galaxies within the universe. As the universe expands outward from the initial explosion of the Big Bang, the gravitational tug gradually decreases. But it is always present, and if there is enough matter, eventually gravity will overcome the expansion, and the universe will slow to a halt. The whole drama will then be played out in reverse. The universe will collapse faster and faster under the overwhelming pull of gravity until it is squashed into another fireball." —*To the Edge of Eternity* by John Gribbin

That means, at the end of contracting phase, the universe will come to a state of super dense 'Singularity'. This 'Singularity' at the end of the universe is called Big Crunch.

Likely Course-Open /Closed?

If the gravitational force is powerful enough expansion of the universe will halt and contraction will begin. Gravitational force depends upon the amount of matter.

"Will the universe expand forever or it will collapse again? The answer to this question depends critically on the amount of matter in this universe. If the density at present is more than 10^{-29} grammes per CC, then scientists calculate that there is enough matter in the universe to overcome, by gravitational attraction the present expansion and the universe will eventually collapse again to another state of Singularity. If the density is less than that value, the universe will continue to expand forever. We do not know the answer yet." —*Dawn of a New Era* by Sir Bernard Lovell

Yet it is not known whether the universe is finite or infinite. That means, volume of the universe is not known. Total amount of matter in the universe is also not known. As a result density

of matter in the universe can not be calculated. Therefore, scientists took a particular volume of space and by measuring the amount of matter in it they estimated the density of matter throughout the universe.

"By measuring the amount of matter the number of galaxies in the volume of space, cosmologists get an indication of what the density of matter in it throughout the universe. Intriguingly but annoyingly the best estimate obtained are that the universe is balanced on a knife edge. As far as we can tell, there is either just enough matter to 'close' the universe and make it eventually collapse or there is not quite enough, so that it will expand forever".— *To the Edge of Eternity* by John Gribbin.

In this matter scientists have different opinions. Somebody have estimated a density which shows that the expansion of the universe will never halt. Somebody have estimated that the amount of matter is quite enough to halt the expansion. There may be huge amount of dark matter which may increase the total mass many times.

Yet scientists do not know whether the universe will collapse or it will expand forever. They accept both the ideas. What the Holy Quran says about it?

"On the day when We will roll up the 'skies' (universe) like the rolling up of the scroll for writings, as We originated the first creation We shall reproduce it, a promise on Us; surely We will bring it about."

-Al Quran 21 : 104

The verse mention that the universe will collapse. There are other verses also that give the same idea.

"When the stars will fall, losing their lustre".

-Al Quran. 81 : 2

"When the sky is cleft asunder. When the stars will scatteredly fall". - Al Quran 81 : (1-2)

The stars will fall. When they will fall and where they will fall ? We already know that due to the gravitational pull universe may begin to contract, at the end all the galaxies will fall on one another at the centre of the universe. At the end of contracting phase the universe will come to a state of super dense 'Singularity'. This 'Singularity' at the end of the universe is called 'Big Crunch'.

Science

Due to the gravitational pull expansion may stop and the universe may begin to contract. All the galaxies with all of their stars and other objects will start coming towards one another. At the end, all the galaxies will fall on one another at the centre of the universe.

At the end of contracting phase due to intense gravitational force the universe will come to a state of super dense Singularity (Big Crunch).

The Quran

"On the day when We will roll up the skies like the rolling up of the scroll for writings; as We originated the first creation (so) We shall reproduce it; a promise on Us; Surely We will bring it about."

-Al Quran 21 : 104

"When the stars will fall losing their lustre."

-Al Quran 81 : 2

"When the sky is cleft asunder. When the stars will scatteredly fall."

-Al Quran 82 : (1-2)

The Quran clearly mention that the universe will begin to contract and at the end, all the objects will fall in the centre.

Only 10% of the mass necessary for the universe to be closed has been seen so far. Therefore, many people think that the universe will expand for ever. But there are many great scientists who think that the universe will contract. As Stephen W. Hawking says :

"The Hubble constant might be less than claimed. It decreased by a factor of ten in the last fifty years, and I don't see why it shouldn't decrease by another factor of two. This would reduce the necessary mass to be found." - *The Nature of Space and Time* by Stephen Hawking & Roger Penrose.

However, Muslims should believe that the universe will collapse because the Quran says that the universe will collapse.

New Universe

At the end of contracting phase all the matter of the universe will collapse together in one place. Gravity will pull the matter into a compact state. Due to intense gravitational force all the matter will be moving towards a point. But limit of that gravitational collapse is not known. At the end matter may collapse into a Singularity. This Singularity at the end of the universe is called Big Crunch.

At certain state due to tremendous pressure and temperature 'Big Crunch' will explode (Big Bang-2) and a new universe will be born.

OSCILLATING UNIVERSE

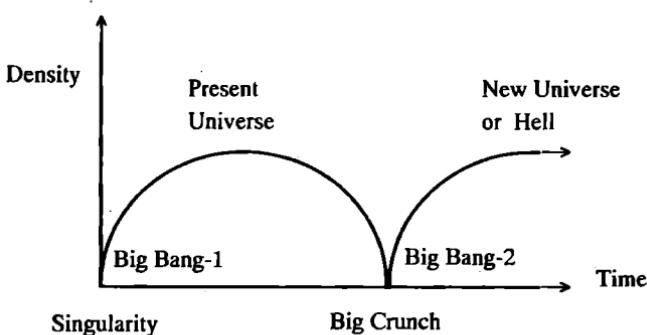


Fig 16. New Universe

"But it is also possible that expansion will be reversed by the pull of gravity, that all matter will collapse once again into a super-dense 'singularity' and that another universe will be born in another Big Bang a cycle that could be repeated for ever". *To the Edge of Eternity by John Gribbin.*

This is the prediction of scientists. What the Quran says about it ? Go through the following verses. The Quran also says that the universe will be created again.

The Quran

1. "On the day when we will roll up the skies like the rolling up of the scroll for writing...."

-Al Quran 21: 104

Explanation

1. Universe will begin to contract due to the gravitational attraction. At the end whole universe will collapse into a Singularity (Big Crunch)

2. "As We originated the first creation We shall reproduce it, a promise on Us; surely We will bring it about"

-Al Quran 21: 104

3. "Say : Is there any one among your associates who can bring into existence the creation in the first instance, then reproduce it? Say : Allah brings the creation into existence in the first instance, then He will reproduce it; how are you then turned away: "

-Al Quran 10 : 34

4. "And He it is Who originates the creation then reproduce it, and it is easy to Him; and His are the most exalted attributes in the skies and lands (universe) and He is the Mighty, the Wise"

-Al Quran 30 : 27

2. We know creation started from a Singularity (Big Bang-1). In the same way a second creation will begin from Big Crunch (Big Bang-2).

3. All the matter of the universe was created in one instance (Big Bang-1). Initially hydrogen and helium were created. The universe will begin to contract and at the end will collapse into a Singularity (Big Crunch). Through another Big Bang, again the universe will be born.

4. Allah will reproduce the universe. And it is easy to Him. Allah created the universe. In future the universe will collapse. Again He will initiate creation. A new universe will be born.

So we find, Big Crunch will not exist for a long time, it will explode (Big Bang-2) and a new universe will be born. The Quran and science both gives the same idea in this matter.

Summary

I have described that the universe is expanding now. Due to the pull of gravity expansion of the universe will stop and contraction will begin. At the end of the contracting phase all the galaxies with all of their stars and other objects will join together at the centre of the universe. The universe will come to a state of super dense 'Singularity'. This Singularity at the end of the universe is called 'Big Crunch.'

Due to the tremendous temperature and pressure the Big Crunch will explode (Big Bang-2) and a new universe will be born.

The Creator

The 'Open Universe' preclude the requirement of a God. Because it has a beginning. The idea is - at sometime in the past the universe was created from a Big Bang. So there should be a Creator.

But one may not accept the existence of a God if the universe is oscillating. The logic is - before this expanding phase universe had a contracting phase, before that contracting phase the universe had another expanding phase; likewise there were infinite number of expanding and contracting phase. This universe had been existing forever. Question of creation do not come in. So there is no requirement of a Creator.

Then, how a complicated universe like this could develop which even harbour creature like human being? The answer is-,

"It might be that all of the infinite variety of possible universes get a chance to develop into reality. In the infinite chain of cycles stretching off into the past and future, every thing that can possibly happen does happen. 'Our' universe is a very unlikely development, perhaps, but it must happen sometime. We are here to see it because life can develop in this kind of unlikely universe, with this kinds of stars and galaxies and planets that actually exist". – *To the Edge of Eternity* by John Gribbin. Therefore Oscillating Universe donot require a Creator.

But surprisingly the Quran being a devine book supports the idea of an Oscillating Universe. But, here one have to note that the Quran donot agree that the universe had been existing forever. It suggests that the universe was created at the beginning of this expanding phase.

Ref :

1. '*Dawn of a New Era*' written by Sir Bernard Lovell in *The Encyclopedia of Space Travel and Astronomy* edited by John Man.
2. '*To the edge of Eternity*' written by John Gribbin in *The Encyclopedia of Space Travel and Astronomy* edited by John Man.

CHAPTER TWELVE

Near Future

The universe is expanding. All the distant galaxies are receding from our own Milkyway galaxy. In this connection distance of those galaxies is to be considered. Among the huge number of galaxies the nearest one is approximately two million light years away. That means, the light due to which we are observing that galaxy set out two million years ago. We are seeing a galaxy as it was two million years ago and in the location where it was two million years ago. Therefore, when we see that galaxy we see two million years past. In the same way light from the most distant known galaxies takes 10,000 million years to reach the Earth. When we observe those galaxies we see 10,000 million years past. Are those galaxies still receding?

It may so happen that at present all those galaxies are coming towards our own Milkyway galaxy. May be, the universe is contracting now. In spite of that, it is a matter of future to us because we will see that, after the light emitted in the contracting phase start to come. Following verse of the Quran indicates that the universe has already begun to contract.

"See they not that We gradually close the lands from its outlying border? Allah commands, there is none to put back His command: And He is swift in calling to account (day of final judgment is near) -Al Quran 13 :41

This verse indicates that the contraction of the universe has begun. This verse starts with a question-'See they not... ?'. What is the answer of this question? The answer is clear. That is

: we do not see the contraction of the universe. We see that the universe is expanding now.

However, we see some of the nearby galaxies like Andromeda are coming towards our own Milkyway galaxy. If we consider that, those nearby galaxies started to come towards us a few thousands of years back, even then we are to wait for many years to see the more distant galaxies coming towards us. Therefore, can we say that the universe is contracting now and we are already seeing a few nearby galaxies are coming towards us? We cannot say it because a passenger in a fast moving ship will see a distant forward slow moving ship, moving in the same direction, gradually approaching towards him. It will not mean that the forward ship is moving back. For similar reason also we may see few nearby galaxies coming towards us.

Milkyway seems to be in the centre of the universe because in all directions we see galaxies are moving away from us. Then, can we say that our galaxy is not moving in any direction because it is in the centre? Universe has started to contract, because from the centre we are seeing a few nearby galaxies are coming towards us. We can not say it because if an observer can go to some other galaxy he will also see that all other galaxies are moving away from him (because the universe is expanding). Therefore, nobody can definitely say that the Milkyway is in the centre of the universe. If we could have been sure about the location and movement of our Milkyway galaxy we could get a definite idea from those approaching galaxies.

At the same time, so far no galaxy has been seen which has stopped its recession and started coming towards our Milkyway galaxy. From the beginning (since hubble's invention in 1920 s)

we are seeing a few nearby galaxies are coming towards us. Therefore, though we are seeing a few nearby galaxies are coming towards us, we are not being able to get a definite idea from those.

In another verse also the Quran gives similar indication.

"By the sky which returns (in its round)".

-Al Quran 86 : 11.

The sky is all arround our spherical Earth. The sky returns. That means, the universe is contracting. However the verse donot say that the sky is returning now. The verse only mentions the characteristic of the sky which may be materialised later.

Then we may say that, in the Quran an indication has been given that the universe is contracting now and seeing the phenomena has been kept in question ("See they not We gradually close the lands from its outlying border?" -Al Quran). Scientists are seeing that the universe is expanding. At such situation, we may say that the universe might be contracting now but we are seeing it expanding, because light emitted in its contracting phase has not yet come. That means, though the universe is contracting now, we are living in a expanding universe. In this connection, a short brief on 'Time' is also required.

Stephen W. Hawking in his famous book writes- "There are atleast three different arrows of time. First there is the thermodynamic arrow of time - the direction of time in which disorder or entropy increases. (Energy in the Sun is in a higher degree of order. It always radiate. That means disorder increase with time. A cup may fall down and break but a broken cup never gather themselves together off the floor and jump on the

table). Then, there is the psychological arrow of time, This is the direction in which we feel time passes; the direction in which we remember the past but not the future. Finally, there is the cosmological arrow of time. This is the direction of time in which the universe is expanding rather than contracting."—*A Brief History of Time*.

During the contracting phase of the universe the cosmological arrow of time will reverse. It may affect the thermodynamic and psychological arrow of time. Thermodynamic and psychological arrow of time may also reverse in contracting phase. It means, all the events of the universe will be replayed backward in the contracting phase. People will remember the future instead of remembering the past. For a long time Stephen W. Hawking was bearing the idea that the contracting phase will be a time reverse of expanding phase. Later he changed the idea. As he wrote in his book "*At first I believed that disorder would decrease when the universe recollapse. This was because I thought that the universe had to return to a smooth and ordered state when it became small again. This would mean that the contracting phase would be like the time reverse of the expanding phase. People in the contracting phase would live their lives back ward: They would die before they were born and get younger as the universe contracted*"—*A Brief History of Time*.

"This idea is attractive because it would mean a nice symmetry between the expanding and contracting phase. However, one cannot adopt it on its own, independent of other ideas about the universe. The question is: Is it implied by the no boundary condition? As I said, I thought at first that, the no boundary condition did indeed imply that disorder would decrease in the contracting phase. I was misled partly by the analogy with the surface of the Earth. If one took the beginning of the universe to correspond to the North pole, then the end of the universe

should be similar to the beginning, just as the South pole is similar to the North. However, the North and South poles correspond to the beginning and end of the universe in imaginary time. The beginning and end in real time can be very different from each other. I was also misled by work I had done on a simple model of the universe in which the collapsing phase looked like the time reverse of the expanding phase. However, a colleague of mine, Don Page, of Penn State University, pointed out that the no boundary condition did not require the contracting phase necessarily to be the time reverse of the expanding phase. Further, one of my students, Raymond Laflame, found that in a slightly more complicated model, the collapse of the universe was very different from the expansion. I realised that I had made a mistake: no boundary condition implied that disorder would infact continue to increase during the contraction. The thermodynamic and psychological arrows of time would not reverse when the universe begins to recontract".—A Brief History of Time by Stephen W. Hawking.

"The inflation in the early stages of the universe, which no boundary proposal predicts, means that the universe be expanding at very close to the critical rate at which it would just avoid recollapse, and so will not recollapse for a very long time. By then all the stars will have burned out and the protons and neutrons in them will probably have decayed into light particles and radiate. The universe would be in a state of almost complete disorder. There would be no strong thermodynamic arrow of time. Disorder could'n increase much because the universe would be in a state of almost complete disorder already. However, a strong thermodynamic arrow is necessary for intelligent life to operate. In order to survive, human beings have to consume food, which is an ordered form of energy, and convert into heat, which is a disordered form of energy. Thus intelligent life could not exist in the contracting phase of the universe. This is the explanation of why we observe that the

thermodynamic and cosmological arrows of time point in the same direction. It is not that the expansion of the universe causes disorder to increase. Rather it is that the no boundary condition causes disorder to increase and the condition to be suitable for intelligent life only in the expanding phase. -A Brief History of Time by Stephen W. Hawking.

Hadith gives us an idea which is to some extent similar to the previous idea of Stephen W. Hawking.

Hadith : "By the name of Allah in Whose hands is my life; Qiyamah (dooms day) will not take place until animals talk to human being, tip of his stick, his latchet will talk to him and his thigh will inform him whatever his family members did in his absence"-Muslim Sharif.

Tip of a stick or a latchet have no mouth. Therefore, it is not likely that those will talk like a human being (however it may be possible in some way that we are not being able to imagine at present). With present day science it can be explained as under:

If a man come to know the future of his stick or his latchet by concentrating his mind on those, we may say that the stick or the latchet talked to him. After coming back home if he thinks looking at his thighs and by this if he come to know whatever happened in the house in his absence then we may say that his thighs have given him information. That means, main thing will happen in the human thinking process. At that time if a man thinks about an object or about a place, will know the future of the object or of the place. It is also a sort of talking. Probably sticks, latchets etc. will express out the secrets in this way. It may happen if there is a change in psychological arrow of time. Psychological arrow of time may reverse in the contracting phase of the universe. As per scientific view, at that time men will know the future and will not be able to remember the past.

But the Hadith indicates a time when people will be able to know the past and the future both. Therefore, it seems that it is a interim period of time in which change over from the expanding phase of universe to the contracting phase is being take place (in our view point). Or it may be the initial days of the contracting phase. At such time there may be a disorder in psychological arrow of time. Therefore people will be able to think the past and will often come to know the future.

At that time there may be changes in thermodynamic arrow of time also.

This may be the time when the Sun will rise from the west. According to Hadith after rising of the Sun from the West no child will born. That means, people will gradually become young instead of becoming old. Therefore babies will not develop inside mother's womb.

Will the universe continue like that? In that case a time will come when we will have to come out of the grave and lead our life backward. Not only that, the end of the contracting phase will be like the beginning of the expanding phase. These are unexpected (What is expected at the end of contracting phase , will be described in the next article). It is not also expected that the people will gradully come out of the grave and lead their life backward. Probably this is the reason for which the universe will be destroyed at the beginning of the contracting phase by the first blow of *Surr*. Therefore, events of the universe will not be repeated backward and the end of the contracting phase will be as desirable..

Probably at the initial days of contracting phase the Sun will rise in the West. According to Hadith that is the time during which things like sticks and latches will start expressing the

secrets. According to Hadith with in a few (40) years after rising the Sun from the West the *Surr* will be blown for the first time (first blow). All the creatures will die. Whole universe will be shakened. Stars will cease to radiate. Space time will have a major change.

"Assuredly what ye are promised mast come to pass.
Then when the stars become dim (cease to radiate).
When the sky is cleft asunder-Al Quran 17 : (7-9)

Probably this is the aim of the first blow of *Surr*. Aim of first blow is not to take out the souls of all living being at a time. That is the job of angle Azrail. He can do it without the blow of *Surr*. Aim of the first blow of *Surr* is to destroy the universe, so that events of expanding phase are not repeated or reflected backward in contracting phase. And set the evolution of the universe in a way that the end of the contracting phase becomes as expected.

Summary

Probably the universe is contracting now but we are seeing it expanding. We are living in a expanding universe Probably in near future we will enter into contracting phase and will start feeling a disorder in the arrows of time. People will start knowing the future, the Sun will rise from the West, birth will stop. As soon as these happens the universe will be destroyed throughly by the first blow of *Surr*. Due to first blow of *Surr* there will be massive changes in space time (sky will be cleft asunder). The stars will cease to radiate. The blow of *Surr* will change the space time to an extent that the events will not be repeated backward. And the end of the contracting phase will be as expected.

Conclusion

Whatever I have written in this article are not confirmed truth. We do not know what is happening to this universe at present. We do not actually know whether it is expanding or contracting (though from our view point we find that it is still expanding). Our knowledge is very shallow on space-time. Verses of the Quran and Hadiths used in this article (Near Future) do not give a clear indication. Explanation of these verses and Hadiths may be wrong. These verses and Hadiths may have separate explanations. Scientific theories are also not confirmed. I did not have the intention to add this doubtful article in my book. For the main theme of the book the article was not required also. In spite of that I have included, so that people really will have some knowledge, will think on it and try to find out the actual truth.

CHAPTER THIRTEEN

The Day of Final Judgment

Everything will be destroyed (dooms day). Then a time will come when all the creatures of the universe will be resurrected. The final judgment will be carried out by Allah. After final judgment a part of mankind will be sent to *zannat* and another part will be thrown into hell. This is the beginning of an endless life. On that day the fate of each human being will be decided forever.

Final judgment is an event of total creation. Therefore, while going through this article following have to be borne in mind.

- a. The universe is expanding.
- b. Things required to produce the objects of hell are being created in this universe. Real objects of hell will be created after final judgment. After final judgment this universe (seven layers of skies and lands) will turn into 'seven layers of hell'.
- c. Outside this universe, there is another universe named *zannat*. *Zannat* is bigger than this universe and is composed of many peaceful planets (paradise).
- d. Between these two universes a region called *Araf* exists, that resist an object going from this universe to the *zannat*.
- e. *Pul-Surat* is a passage through which one can pass through *Araf* and reach *zannat*.
- f. *Israfil* is an angel created out of light. His body is so big that his arms/ wings extends upto the end of the universe. He is holding a *Surr* in his mouth. He is always looking towards

the *Arsh* for the order of Allah. Once order is given he will blow the *Surr*.

- g. *Surr* is like a bugle (in human sense), blowing of that will produce violent sound. The sound will generate enormous vibration in all the objects of the universe and will bring all out destruction.
- h. With each human being there are two angels (Keraman, Katebin). They writes whatever the man does - good or bad. This record is called '*Amal Nama*'. After the death of the man the angels go back with the *Amal Nama*.

First Blow of *Surr*

"It is narrated by Abu Horayrah (R), Prophet Muhammad (sm) said," *Qiyamah* (dooms day) will not come unless the Sun rises from the direction it sits. When that will happen each individual will see, then whole mankind will accept 'Iman' (belief on Allah and the Prophet). But those who were unbelievers before that time, their belief at that time will not pay any benefit and those who were not repentant for their sin before that time, their repent (Tawbah) at that time will not pay any benefit. Ofcourse the Qiamah will take place and so fast it will be effective that let a buyer and a seller both have opened a cloth, will not get time to complete the sell or fold the cloth again - by the time the *Surr* will be blown. Listen more, some one has milked the cow, will not get time to drink-by the time *Surr* will be blown. Listen more, someone has plastered his water tank, will not get the opportunity to use it -before that *Surr* will be blown. Listen more, one has raised a lump of food near one's mouth, will not get the scope to eat - before that the *Surr* will be blown".

-Bokhari Sharif.

In the article named 'Near Future' it is described that the *Surr* will be blown for the first time in the initial days of the contracting phase of the universe.

Initially everybody on the Earth will hear the sound of *Surr* in a very low tone. Gradually the sound will increase. It will become so loud that eardrums of the people will burst. A vigorous earthquake will begin. The Earth will be destroyed completely. All the creatures will die. Not only in the Earth, throughout the universe there will be massive destructions. All the angels of the universe (skies and lands) will die including Israfil himself who will die at the end. The universe will remain in that state for a long time.

The sound of the *Surr* will be effective only in the universe. It will have no effect on *Zannat, Arsh, Kursi* and *Lawh-Mahfuz*.

Ground of Final Judgment (Hashar)

We live on the Earth. Therefore, we develop an idea that the final judgment will be carried out on the Earth. The idea is not correct. In the Quran and Hadith, it is not said directly, where the final judgment will be carried out ? Prophet (sm) said that the ground of Arafat is like the ground of final judgment. But he never said that the ground of Arafat is the ground of final judgment.

"One day the land will be changed to a different land and so will be the skies, And will be marshalled forth, before Allah, the One, the Irresistible".-Al Quran 14 : 48.

Final Judgment will be carried out on a different land where there will be a different sky.

In the Quran and Hadith many indications are given about the location of the ground of final judgment. We are to put a

scientific view on those verses and Hadiths and identify the location of the ground.

It is said in the Hadith that :

"On the day of final judgment the hell will be brought with the seven layers of lands".-Hadith.

The Hadith says about a 'seven layers of lands'. To get the idea about the ground of final judgment we are to know about 'seven layers of lands'. Is it the land of the Earth?

We know that the land of the Earth do not have seven layers. The planet Earth has only four prominent layers, those are: Crust, Mantle, Inner Core and Outer Core.

We know that the diameter of the Earth is only about 8000 miles. If the hell is brought from the interior of the Earth, diameter of that hell will be less than 8000 miles. Hell cannot be so small. Because we know people in the hell will be very big. They will be so big that a few of them will not be able to stay in such a small hell. According to Hadith size of a teeth of a person in hell will be equal to the hill Ohud. To sit, he will require a space equivalent to the distance from Mecca to Madina.

Hadith: Abu Horayrah narrated, "Prophet (sm) said, "Distance between two shoulders of a 'Kafer' will be a distance of three days journey for a fast moving horse".

-Bokhari Sharif.

'Three days journey distance' of a fast moving horse will not be less than 150 miles. The man, distance of who's shoulders is about 150 miles, will be about 500 miles in height. For going from India to America he will require a few steps. He will cross the Atlantic ocean with a single jump. If the hell is brought from the centre of the Earth such big people will not be able to stay in that small hell. So, there is no hell inside the planet Earth.

Therefore, we may say that the 'seven layers of lands' is not the land of the Earth.

I have already discussed that in the Quran, to indicate the universe the word. 'land' (*ard*) is always used with the word 'skies' (*samawat*). Two words, 'skies and lands' (*samawat-wal-ard*) in unity indicates the universe. In the Quran the word 'skies' (*samawat*) also indicates the universe. No verse of the Quran mention about 'seven layers of lands'. This we only find in the Hadiths. Here it is to be noted that all those Hadiths which mention about 'seven layers of lands' are related to the day of final judgment only. Example of such Hadiths are given below.

- a. Hazrat Aysha (R) narrated, "Prophet (sm) said, The man who will even acquire half a cubit of land by oppression, on the day of final judgment that amount from the each of seven layers of lands will be hanged on to his neck".
- Bokhari Sharif.
- b. "On the day of final judgment hell will be brought with seven layers of lands".-Hadith.

Therefore, we may say 'seven layers of lands' is related to the day of final judgment only. At present lands (stars, planets etc) are scattered in the seven layers of skies. Therefore, the universe is called 'seven layers of skies and lands' (*Samawati-wal-Ard*). If all those lands (stars, planets etc) fall in the centre of the universe and become united then that single mass of matter may be called 'seven layers of lands'. Really a time will come when all the stars, planets etc. will fall in the centre of the universe and will join together. This is said in the following verses :

- a. "The day when We will roll up the skies like the rolling up of scroll for writings" -Al Quran 21 : 104.

b. "When the stars will fall, losing their lustre".

-Al Quran 81 : 2 .

c. "When the stars will scatteredly fall". -Al Quran 82 :2.

Above mentioned verses gives clear indication that all the lands (stars, planets etc) will fall in the centre of the universe and will join with one another. That united land is called 'seven layers of lands' in the Hadiths.

The person who calls this universe 'seven layers of skies and lands' is likely to call that united land 'seven layers of lands'. In short we will call it 'Thaqal'.

We know, the universe started from the initial explosion of Big Bang. The universe is still expanding. Galaxies are receding from one another. But gravitational pull is always trying to stop the expansion. Due to gravitational pull the expansion of the universe may gradually stop. If expansion stops, soon the universe will begin to contract (due to the same gravitational pull). The galaxies will start coming towards each other with an ever increasing speed. At the end, all the galaxies with all of their stars and other objects will fall on one another at the centre of the universe. All the stars and other objects of the universe will join together and will form a super dense Singularity. This Singularity at the end of the universe is called Big Crunch.

The Quran gives clear indication that the resurrection will take place at that time.

"No just estimate have they made of Allah, Such as is due to Him: On the day of judgment all of the lands (stars, planets etc) will be in His hand, And the skies will be rolled up in His right hand: Glory to Him, high is He above the partners they attribute to Him".

-Al Quran 39 : 67

The above mentioned verse gives clear idea about the ground of final judgment. According to this verse, day of final judgment is that day when all the lands (all the stars, planets and other objects of the universe) will be in the hand of Allah and the skies (space) will be rolled up. I have already narrated that, at the end of contraction how this universe will come to a state of super dense singularity called Big Crunch. At that state, where final judgment can be carried out? There will be only one object, that is the Big Crunch itself. Can we say that the final judgment will be carried out on the Big Crunch?

Singularity at the end of the universe is called Big Crunch. Singularity is a point in space-time at which the space curvature becomes infinite. It is a point with infinite density.

Scientists say that at the end of the contracting phase the universe will collapse into a Singularity (Big Crunch). It may become smaller than a proton.

Some scientists say that at the end of contracting phase the universe will be squashed into another fire ball (fire ball is a state of the universe about less than a million years after the Big Bang.) then will bounch back out again.

At the beginning of creation only hydrogen was created. But at present the universe contains huge quantity of heavier elements. Therefore, it is not likely that at the end all the matter of the universe will suddenly collapse into a point. Billions of stars will join. Gravity will pull the matter into a compact state. At this state resurrection will take place and for some time situation will remain suitable for final judgment . In the Hadiths this state of the universe is called 'seven layers of lands'. I will call it '*Thaqal*'. '*Thaqal*' is an Arabic word. It means something weighty. The word is used in the Quran (Verse 31 of Surah Rahman) to indicate the same state of the universe.

Some people may opine that in the Quran the word *Thaqal* means something different. However, in this book the word *Thaqal* will mean the state of the universe before Big Crunch when all the objects of the universe will have joined together forming a single body. By that time it is not squeezed so much that one can call it a Singularity (Big Crunch) or it is not so violent that one can call it a Fireball.

Final judgment will be carried out on the *Thaqal*. After resurrection mankind will be assembled in an area. This area on the *Thaqal* is the ground of final judgment.

"No just estimate have they made of Allah, Such as is due to Him: On the day of judgment all of the lands (stars, planets etc) will be in His hand, And the skies will be rolled up in His right hand: Glory to Him, high is He above the partners they attribute to Him".

-Al Quran 39 : 67.

The skies means space. Curvature of space is felt as gravity. It determines the distribution of matter. All the lands will be in the hand of Allah and skies will be rolled up in His right hand in a way that it will take a suitable form for final judgment.

"Praise be to Allah the Cherisher and Sustainer of the worlds (universe and zannat). Most Gracious, Most Merciful. Master of the Day of Judgment".

-Al Quran 1 : (1-4)

The verse indicates that the day of final judgment is exclusively the day of Allah and the events on that day will move according to His direct will.

Laws of the nature is determined to suit the requirement of the living creatures. I site an example : Volume of all kinds of matter reduce once temperature is reduced. But, after 4 degree centigrade volume of water increases once the temperature is reduced. As a result, ice floats in the water. Otherwise ice would

deposites from the bottom and in the cold countries whole water of the ponds, lakes and rivers would become ice in the winter. All the fishes would die. But that does not happen. Ice floats and makes a layer at the top. As a result, water at the bottom do not become ice where fishes can survive. That means, nature of the water has been determined keeping the requirement of fishes in view. Likewise nature of the *Thaqal* will be determined as such that it will be suitable for resurrected people.

In the ground of final judgment there will be air to breath. The atmospheric pressure will be within bearable limit. Gravity will be as such that the people will be able to move comfortably. All these will be specially arranged by 'Allah'. Even, there will be water in the '*House-e-Kawsar*'.

"To thee have We granted the Kawsar. Therefore, to thy Lord turn in prayer and sacrifice. For he who hateth thee. He will be cut off"-Al Quran 108 : (1-3)

After final judgment *Thaqal* (seven layers of lands) will move into its normal course of evolving and due to intense gravitational force may turn into Big Crunch before it explode (Big Bang-2)

"Say: To whom belongeth all that is in the skies and lands (universe)"? Say "To Allah. He hath inscribed for Himself mercy. That He will gather you together for the day of judgment, There is no doubt whatever. It is they who have lost their own souls, that will not believe."

-Al Quran 6 : 12

Fire of Hell

I have already described, blackholes are the pivots of the objects of hells. With the stars and planets, blackholes will also fall in the centre of the universe. Whenever a black hole falls, it will

move to the centre of the *Thaqal* by piercing the matter. Because nothing can hold a blackhole.

"If a blackhole would have the mass of a mountain compressed into less than a million millionth of an inch, the size of the nucleus of an atom! If you had one of these blackholes on the surface of the Earth, there would be no way to stop it from falling through the floor to the centre of the Earth. It would oscillate through the Earth and back, untill eventually it settled down at the centre".— *A Brief History of Time* by S.W Hawking.

Likewise all the black holes will position themselves in the *Thaqal*. By powerful magnetic field a black hole can keep its existance even when a huge amount of matter is compressed around it. Due to the existence of blackholes in the centre, the *Thaqal* will gradually become violent. During final judgment due to the existence of black holes in the interior fire will spread on the surface of the Big Crunch. Initially the fire fire will be exposed at the left side of the 'ground of final judgment (Hasher)' That's why it is said in the Hadith :

"On the day of final judgment the hell will be brought with seven layers of lands" – Hadith.

The Earth, Moon And The Sun

We live on the Earth. The Sun and the Moon are involved in our daily life. Therefore, it is often asked what will happen to those on the day of final judgment? So it is required to be explained though existence of those are not at all remarkable in this vast universe.

With the first blow of *Surr* destruction will begin throughout the universe. The Sun, Moon and the Earth are not likely to have a separate fate. These condition will be like other

stars and planets of the universe. That is, they will also fall into the centre of the universe and will contribute themselves for the formation of *Thaqal*.

"He questions: 'When is the day of qiyamah. At length, when the sight is dazed, and the Moon is burried in darkness. And the Sun and Moon joined together".

-Al Quran 75 : (6-9).

The Moon is very near to the Earth. If the Sun joins with the Moon, the Earth will also join with the Sun. That means whole solar system will be destroyed.

"Then when first blast is sounded on the *Surr*. And the Earth is thrown off and its mountains, and they are crushed to powder at one stroke". -Al Quran ۸۳ : (۱۹-۲۸).

With the first blow of *Surr* the Earth will be thrown off from its orbit and will start moving towards the Sun. All other planets of the Sun will also move towards the Sun and will be crushed into powder by collision. The Sun will then be buried in darkness.

"When the Sun Is folded (twisted) up".-Al Quran 81 : 1.

At that state with all other stars of Milkyway galaxy the Sun will also fall in the centre of the universe.

"When the stars fall, losing their luster". -Al Quran 81 : 2.

At the end all the galaxies will fall in the centre of the universe and will form a Big Crunch where the gas of the Sun will also exist. That is why it is said in the hadith,

"On the day of final judgment the Sun will be about half a cubit above the head".-Hadith.

When Allah will come for judgment the planet Earth will not exist. However, its Matter will be there in the Big Crunch. It will be crushed into powder.

"Nay when the Earth is pounded to Powder. And they Lord cometh, and His angels, rank upto rank".

-Al Quran 89 : (21-22).

During judgment Allah will bring out the matter of the Earth from the *Thaqal*. It will be like a bread.

Hadith: "On the day of final judgment the land of the Earth will be like a bread. Mighty Allah will rotate it with His power. The way some of you rotate your bread in the plate. That will be food of gesture for the people of zannat." -Bukhari Sharif.

After the judgment, matter of the Sun and the Moon will be thrown into the objects of hell.

Hadith: "On the day of qiyamah the Sun and the Moon will be thrown into the hell." –Mashnad-i-Ahmed.

Resurrection

Due to tremendous gravitational pull the *Thaqal* will continue to squeeze. Its state will gradually change. At a particular time the resurrection will take place. All the creatures, who so ever borned in this universe will be suddenly resurrected.

Big Crunch is the Singularity at the end of the universe. At the 'singularity'. time and space ceases to a point. One get past and future in one point. *Thaqal* is a state of the universe immediately before Big Crunch. Therefore, on the *Thaqal* it is not unlikely to get whole mankind (from Adam to the last) in one place. Resurrection may be natural on the *Thaqal*. Scientifically, the universe might have been designed to have a *Thaqal* at the end coupled with resurrection.

"And your creation or your resurrection is no wise but as an individual soul for Allah is He who hears and sees".

-Al Quran 31 : 28.

The Quran

1. "When the sky is Rent assunder. And hearkens to its Lord. And it must do so."

-Al Quran 84 : (1-2)

2. "And when the land is enlarged.

-Al Quran 84: 3

3. "And casts forth what within it And becomes empty. And hearkens to its Lord and it must do so." -Al Quran 84 : (4-5)

Explanation

1. What will happen when the sky will be rent assunder? "When the sky is cleft assunder When the stars will scatteredly fall. -Al Quran 81 : (1-2). All the galaxies with all of their stars will fall in the centre of the universe and will form a *Thaqal*.

2. *Thaqal* is suppose to squeeze rapidly and turn into Big Crunch. But for some time the contraction will be halted. For sudden halt *Thaqal* will be enlarged a bit.

3. On that *Thaqal* resurrection will take place. That land will cast all creatures out.

Second Blow of *Surr*

At the end of first blow Israfil himself will die. After resurrection he will blow the *Surr* for the second time. The main effect of the second blow is violent vibration. It will generate tremendous vibration in all the matter of the *Thaqal*. Due to this vibration the *Thaqal* will become absolutely smooth.

"They ask thee concerning the mountains: say, "My Lord will uproot them and scatter them as dust. He will leave them as plains smooth and level. "Nothing crooked or curved wilt thou see in their place".

-Al Quran 20: (105-107).

Due to the second blow of *Surr* every body will lose their sense other than those whom Allah will save.

It is said by prophet Muhammad (sm) : "Of course on the day of final judgment people will lose their sense due to the blow of *Surr* (second blow). Thereafter at first I will get the sense and see that prophet Moses is holding a corner of *Arsh*. So, I am not sure whether he will lose the sense and regain before me or he is one of those who will be saved by Allah from losing their sense"

-Bokhari Sharif, Muslim Sharif.

Then *Surr* will be blown for third time. With that everybody will regain their sense and final judgment will start.

The Quran

1. "No just estimate have they made of Allah, such as is due to Him. On the day of judgment all the lands will be in His hand, and the skies will be rolled up in His right hand: Glory to Him! High is He above the partners they attribute to Him." -Al Quran 39 : 67

2. "The *Surr* will be sounded, when all that in the skies and lands will faint. Except such as it will please Allah (to exempt)" -Al Quran 39: 68

3. "Then it will be sounded again, when, behold, they will be standing and look on!" -Al Quran 39 : 68.

4. "And the land (*Thaqal*) will shine with the glory of its Lord: The record of deeds (Amal Nama) will be placed; The prophets and the witnesses will be brought forward; and a just decision pronounced between them; and they will not be wronged."

-Al Quran 39 : 69.

Explanation

1. The universe will contract. At the end the stars, planets and all other objects (all the lands) of the universe will join together (we will call it *Thaqal*). Then at a critical time resurrection will take place.

2. This is the second blow of *Surr*. The sound will be so violent that everybody other than a few will be fainted. With this blow *Thaqal* will come to a smooth and steady state.

3. This is the third blow of *Surr*. With this blow everybody will regain their sense.

4. After third blow of *Surr* final judgment will start.

In the previous article named 'Near Future' I have described that, *Surr* will be blown for the first time at the beginning of the contracting phase of the universe. At the end of contracting phase when *Thaqal* will form the *Surr* will be blown for the second time. Then what is the length of time between first and second blow of the *Surr*? We know, after the creation, the universe is expanding for last 10 to 12 billions of years. Contracting phase will take the same time. Therefore, time between first and second blow of *Surr* will also be 10 to 12 billion years. Contraction may take less time than expansion. In spite of that a long period of time will be required. However the figure will be related to 40 because Prophet Mohammad (sm.) said that time between two blow of *Surr* would be fourty.

Hadith : "Time between two blow of *Surr* is fourty."

Sahabas said, "Is it fourty days?" Prophet (sm) said, "I do not agree". Sahabas again said,"Is it fourty years?" Prophet (sm) said, "I donot agree." Sahabas again said, "Is it fourty months?" Prophet (sm) said,"I donot agree."-Bokhari Sharif.

All the times Prophet (sm) said, "I do not agree." He did not say the length of time. It is not fourty days, months or years. The length of time may even be fourty hundred million years.

At the time of second blow resurrection will take place. People will feel that they have slept for one night or a little more. The way we sleep seven to eith hours at night but do not feel how the time pass.

Preparation for Judgment

Thaqal will be created out of all the stars, planets and other objects (all the matter) of the universe. That must be millions of times bigger than this Earth. On a particular area on the *Thaqal*

final judgment will be carried out. That particular area is called ground of final judgment (Ground of *Hashar*).

After resurrection two angels will be detailed for each human being. One will drive him to the ground of final judgment, another will bear the witness of his deeds.

"And there will come forth every soul: with each will be an (angel) to drive, And an (angel) to bear witness".

-Al Quran 50 : 21

Condition of the ground of final judgment will be very hostile. It will be too hot. Therefore, people will start trying for final judgment. They will go to prophet Adam, Noha, Ibrahim, Musa and Isa one after another but none will agree to request Allah for final judgment. At the end people will come to prophet Muhammad (sm). He will request Allah for final judgment. With his request final judgment and the rescue will begin. This request of prophet Muhammad (sm) is for whole mankind, for that it is called *safayat -i-kobra* (major request). It also reflects the greatness of Allah. Unless mankind ask for final judgment through their representative Allah will not appear for judgment. For human being also it is the better the sooner judgment starts. Because we know *Thaqal* will be a temporary state of the universe. Due to intense gravitational pull the *Thaqal* will continue to squeeze. At certain stage it will enter into a state called Big Crunch. From Big Crunch the universe will again be born. Allah will carry out final judgment and will save the people He likes before that.

Exposure of The Fire of Hell

In some Hadiths hell is described with many parables so that among people it can generate fear, people of all ages can understand and read those with interest. But in the hadiths there are some key points which give the scientific idea about it. As for example I quote a Hadith :

It is narrated by Hazrat Abdullah Ibne Abbas-Prophet (sm.) said, "On the day of final judgment the hell will be brought with the seven layers of lands in the northern sky (different sky) in a state that around it there will be seventy thousand ranks of angels. And number of angels in each rank will be seventy times the number of zinns and human beings put together. All of them will pull its reins by force. At that time hell will be on four columns. Columns will be thousand years away from one another. On that day hell will have 30 thousand mouths. In every mouth there will be 30 thousand sharp teeth, each of which will be as big as hill Ohud. In every mouth there will be two lips, each of which will be equivalent to the Earth. In each lip there will be a chain with 70 thousand links. Will be brought in the northern side of the *Arsh* holding each link by many angels". -*Daka-e-Kul-Akhbar*.

At that time skies of the universe will be closed in the *Thaqal*. The Hadith mentions about a different sky. It is the sky of the day of final judgment.

"One day the land will be changed to a different land and so will be the skies, And will be marshalled forth, before Allah, the One, the Irresistible". - Al Quran 14 : 48.

The key point lies at the beginning of this Hadith. It clearly says that, on the day of final judgment the hell will be brought with seven layers of lands. Seven layers of lands means all the matter of the universe (*Thaqal*). Hell will be inside that huge object. It will be pulled in the Northern side of the *Arsh*.

In this Hadith. other descriptions of hell are as such that it seems that the hell is like an animal. But once one keep it in consideration that the hell will be brought with seven layers of

land (*Thaqal*) one can't visualize it as an animal. The person who knows that the 'seven layers of lands' means all the matter of the universe at the state of *Thaqal*, to him explanation of the other parts of the Hadith will be as under :

"At that time hell will be on 4 columns".—The columns may not be material columns. As it is narrated in a Hadith, at the beginning of creation when there was nothing, Allah made the columns of belief.

"Hell will have 30 thousand heads" means it will have 30 thousand tentacles extended up to surface of the *Thaqal*.

"Each head will have 30 thousand mouth" means in each head there will be 30 thousands holes. Through each month it will throw sparks as big as forts. As it is narrated in the Quran :

"Depart ye to the shadow in three columns. No shade of cool, and is of no use against the fierce blaze. Indeed is throws about sparks as forts. —Al Quran 77 : (30-32).

That means, mouths of hell will be like volcanoes.

"In each lip there will be a iron chain with 70 thousand links. Will be brought in the northern side of the *Arsh*, holding each link by many angels".— Lips will be tied with chains which angels will hold and pull the hell with 'seven layers of lands' (*Thaqal*) in the northern side of the *Arsh*.

As a whole the Hadith means that the hell will be at the interior of the *Thaqal* (seven layers of lands). It will have tentacles with mouths extended upto the surface of the *Thaqal*. Through the mouths, like gigantic volcanoes, it will throw sparks as big as forts. Around the *Thaqal* there will be 70

thousands ranks of angels. They will pull the *Thaqal* with hell at the northern side of the *Arsh*.

In one side of the *Arsh*, *Thaqal* will be brought. In another side Zannat will be brought.

After the second blow of *Surr* the *Thaqal* will be smooth. Nothing crooked or curved will there be seen. After the people are assembled for judgment on a ground (ground of final judgment), hell will be exposed. It is narrated in the Hadith:

"On the day of final judgment when all the creatures will be assembled. Hell will come with all its doors open. It will surround the ground of final judgment." –Hadith.

Fire of hell will be exposed all around the ground of final judgment and will gradually come towards the people. It will be felt that the whole mankind is about to be grasped by the fire. This violent fire will recede due to the request of prophet Muhammad (sm). He will say it to recede in honour of the tears of the repentents who cried for their sin. So, the fire will recede. But this will be for a short period. The ground of final judgment will be protected from fire till the completion of judgment.

Zannat will Come Close

I have already described, outside this universe there is another universe named zannat. There are billions of peaceful planets in zannat. Those are the paradise. Those planets of zannat will come near the *Thaqal*. But those will not fall on the *Thaqal* or clash with one another. Systemetically those will come near to the *Thaqal*. An impenetrable barrier called Araf will resist those from falling on the the *Thaqal*.

A passage named *Pul-Surat* will be placed through the Araf. People for whom zannat will be decided will move through the *Pul-Surat*.

"Again, on the day of judgment, will you be raised up. And We have made, above you, seven tracts; and We are never unmindful of creation".-Al Quran 23 : (16-17)

The Quran

1. "When the sky is removed".

- Al Quran 82 : 11

2. "When the blazing fire is kindled to fierce heat";

- Al Quran 81 : 12

3. "And when the Zannat is brought near".

-Al Quran 81 : 13

Explanation

1. I have already explained in present universe distribution of galaxies (matter) have curved the space in seven spherical layers. Each layer of space is called a sky. The distribution of galaxies in space determine the existence of skies. .

During final judgment there will be no galaxy. Therefore, curvature of the space will not exist. That means, the skies will not exist.

2. Initially fire of hell (black holes) will position themself in the *Thaqal*. If the blackholes come in contact of enough matter they reacts violently. Therefore, those will make the interior of the *Thaqal* violent. The fire will be exposed on the surface of the *Thaqal*. Initially fire will be exposed at the left side of the ground of final judgment.

3. Zannat will come near to the *Thaqal* but the planets of zannat will not fall on the *Thaqal*. Those will stay apart. *Pul-Surat* will be placed as a link between *Thaqal* and Zannat.

Judgment

On the day of final judgment Allah will expose Himself. People will clearly see Him. *Hadith*:

It is narrated by Abu Hurairah (R), "Once a few people asked, Oh prophet (sm), on the day of judgment will we see Allah? To answer, Prophet (sm) said, "In a cloudless fulmoon night, will there be any obstruction to see the Moon?" They said, "No, oh Prophet (sm)". Prophet (sm) again said, "In a cloudless clear sky do you find any obstruction to see the Sun?" Everybody said, "No oh Prophet". Then prophet (sm) said, "On the day of judgment exactly in this way you will see Allah, without any obstruction". –Bokhari Sharif.

Allah knows everyone. He knows every thing. Even then He will judge by witness and evidence. He is the right judge. Even some one will tell that he will not accept any witness other than of his own. Then organs of his own body like his hands, eyes etc will give statement against him. The place where time from the beginning to the end will be closed, nothing can be kept hidden there. Allah is the controller of every thing. On that day, all oppressed will get due justice. Even animals without horns will get opportunity to take revenge against the animals with horns. A minute good deed will be taken into consideration and a minute bad deed will also be taken into consideration. Injustice will not be done to any one.

"When the souls are sorted out. When the (infant) female burried alive, is questioned. For what crime she was killed." -Al Quran 81 : (7-9)

On that day all oppressed will get the right judgment.

People for whom zannat will be decided after final judgment will pass through the *Pul-Surat*. They will cross *Pul-Surat* at

different speed. Some of them will cross *Pul-Surat* at the speed of light, some at the speed of fast moving wind, some at the speed of fast moving horse, some of them will be crossing in a very slow speed with lot of difficulties. Somebody will fall down from the *Pul-Surat*. Those who will fall down before middle will fall in the hell (they will fall on the *Thaqal*). Those who will fall down at the middle, will remain in Araf for a period and will be sent to zannat later.

People for whom hell will be decided will be driven towards the hell. They will be driven on the *Thaqal* in different direction. Hadith:

"On the day of final judgment Allah will assemble whole mankind. Then Allah will say, "people will follow, whom they worshipped, he must go with him". Accordingly those who used to worship the Sun will follow the Sun, that means they will be compelled to go there where the Sun will reach. Those who used to worship the Moon will be compelled to follow the Moon. Those who used to worship different idols will be compelled to follow those idols, that means they will be compelled to go there where those idols will reach".

-Bokhari Sharif.

There will be no Sun and Moon at that time but their matter will exist in the *Thaqal*. People will be driven towards those matter. That means, people for whom hell will be decided will be compelled to move on the *Thaqal* in different directions.

People for whom zannat will be decided will be able to cross the *Pul-Surat*. Peaceful planets of zannat will be distributed among them. Each individual may get one, two or more number of planets. They will get such power that their orders will be materialised instantly. They will get an endless life of honour, pride and joy. The zannat will go back with her people.

New Universe

People for whom hell will be decided will be left on the *Thaqal*. People, those who will fall down from the *Pul-Surat* before the middle will also fall towards the *Thaqal*. Will they remain on the *Thaqal* forever? They will not. I have already described the future of the universe. *Thaqal* will be a temporary state of the universe. As soon as the people for whom zannat will be decided move into the *Pul-Surat*, *Thaqal* will be left in its natural course of evolution. Its tremendous gravitational pull will continue to squeeze it. From the Hadith we know, after judgment a time will come when there will be absolute darkness in the ground of final judgment. This indicates that the *Thaqal* will squeeze to an extent that its matter will not radiate. At certain stage *Thaqal* may turn into state what scientists call Big Curnch. Due to tremendous pressure and temperature Big Crunch will explode (Big Bang-2). From Big Bang-2 the universe will again be born. That new universe will be called seven layers of hell. This is how this seven layers of skies and lands (Present universe) will be transformed into seven layers of hell (New universe).

Alternatively, the *Thaqal* may squeeze to higher densities and explode from a nonsingular state forming a new universe.

NEW UNIVERSE

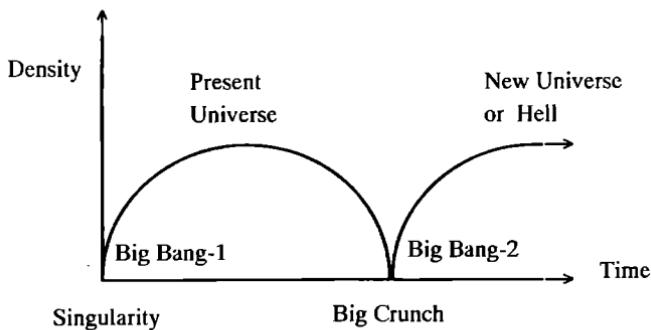


Fig 17. New Universe/Seven Layers of Hell

I have already described that at the beginning of creation only hydrogen and helium were created. It took long time for galaxies to form. Heavier matter of present universe formed due to fission reaction in the stars. After Big Bang-1 this universe took long time to come to this present state. But situation at the beginning of the new universe may be different. New universe will come into existence from Big Crunch. That may provide enough heavy matter from the beginning (All the matter of the *Thaqal* may not move beyond event horizon). There may be many blackholes. Basing on those blackholes galaxies may quickly form. Therefore, from very initial stage that new universe may possess billions of violent galaxies and quasars. Those violent galaxies and quasars are the objects of hell. The new universe will continue to expand and objects of hell will be scattered in seven layers of space. Therefore, that new universe

will be called 'skies and lands' and at the same time will also be called 'seven layers of hell'.

Big Crunch will be created by all the matter of the universe. This huge amount of matter cannot remain united for long. Therefore, a new universe will be created from Big Crunch. But how that new universe will come into existence can not be said for sure. It may come into existence through a explosion or may follow some other process.

The time when good people will be crossing the *Pul-Surat*, creation of new universe will begin. It is narrated in the Hadith:

Hājrat Aysha (R) narrated, I said, "Oh the messenger of Allah (sm); the day when land (Big Crunch) will be changed, where the people will stay"? Prophet (sm) said, "Oh Aysha, you have asked me about a great event, before you none asked me this question. On that day people will be on the *Pul-Surat*". -Hadith.

Then it is clear that when the people of zannat will be in the *Pul-Surat*, the land (Big Crunch) will change. It will start forming a new universe. This universe came into existence from a Big Bang-1. In the same way that new universe will come into existence from Big Bang-2.

I have explained, initially present universe was not divided (curved) into seven skies. Later Allah distributed the galaxies into seven spherical layers of space (seven skies). That is why we call this present universe 'seven layers of skies and lands'.

"So He completed them as seven skies in two days (two peried of time) and He assigned to each sky its duty and command....." -Al Quran 41 : 12.

In the same way new born galaxies and quasars of the new universe will be distributed in seven spherical layers of space. So, that universe will be called 'skies and lands' and at the same time will also be called 'hell'.

New Univerese will be similar to this present universe. In present universe we see thousands of stars in night sky. In the same way a man in new universe (hell) will see thousands of stars in the sky. Present universe is composed of millions of galaxies and quasars. In the same way that new universe will be composed of millions of galaxies and quasar. But those galaxies and quasars will be more violent because those are the objects of seven layers of hell. Following verses of the Quran gives clear indications that the new universe will be like this present universe.

"The day when We will roll up the skies like the rolling up of scroll for writings; as We originated the first creation, We shall reproduce it; a promise on Us: Truely We will fulfil it". -Al Quran 21 : 104.

Say: "Of your 'partners' can any originate creation and repeat it? Say: It is Allah who originates creation and will repeat it: Then how are ye deluded away.

-Al Quran 10 :34

Say: "Travel through the land and see how Allah did originate creation; so will Allah produce a later creation: For Allah has power over all things. -Al Quran 29 : 20.

The Quran

1. "And among His signs is this, that sky and land stand by His command".

-Al Quran 30 : 25

2. "Then when He calls you, by a single call, from the land (*Thaqal*), behold, ye come forth".

-Al Quran 30 : 25

3. "To Him belongs every thing that is in the skies and lands: all are devotedly obedient to Him. It is He Who begins creation, then repeats it; and for Him it is most easy. To Him belongs the loftiest similitude in the skies and lands: For He is Exalted in Might, Full of wisdom."

-Al Quran 30 : (26-27)

Explanation

1. It is to be noted that this verse tells about single sky (*Samau*). So it is the time when all the objects of the universe has joined together forming a *Thaqal*. That is the time when there will be only one sky. There will be only one land that is the *Thaqal* it self. By the command of Allah those will stand at a desired state.
2. When Allah will call, resurrection will take place on the *Thaqal*.

3. Allah initiated the creation. We have discussed how this universe has evolved from Big Bang-1. After resurrection and final judgment Allah will repeat the process. *Thaqal* will squeeze and will turn into Big Curnch. A new universe will be created from that Big Crunch.

Destination

After the judgment people for whom hell will be decided will be left on the *Thaqal*. Then the *Thaqal* will be left on its normal course of evolution. Due to tremendous gravitational pull *Thaqal* will start to squeeze and will turn into Big Crunch. Big Crunch will explode (Big Bang-2). People who were left on the Big Crunch will be thrown off in the space. But they will never die.

Many black holes will be released from the Big Crunch. Black holes will pull away the people. Each black hole will take away one person; the person who is earmarked for her.

"Then, he whose balance (of deeds) will be (found) heavy will be in a life of good pleasure and satisfaction. But he whose balance (of deeds) will be (found) light. Their mother will be bottomless hole (black hole) And what will explain to thee what this is? A fire blazing fiercely. – Al Quran 101 : (6-11).

People thrown off in space will be pulled away by the blackholes. Each individual will be pulled away by a black hole determined for him. Head of those thrown off people will be towards the front. That is why it is said in the Quran that, on the day of final judgment people will be moved on their faces.

"The day they will be dragged through the fire on their faces "Taste ye the touch of hell"! -Al Quran 54 : 48.

Every black holes will also take away enough matter from the fire ball (fire ball is an event after the Big Bang –2). In course of time those will form many galaxies and quasars.

Each Quasar/Galaxy will get the person determined for her. The person will live in that galaxy / Quasar. He will never die. That will be the hell for him.

The whole event will take very little time. After judgment Big Crunch will explode and each blackhole will pull away enough matter and the person determined for her. Quickly by those blackholes and matter many galaxies and quasars will

from. Though the speed of change will be as fast as an explosion, each individual will reach to the galaxy determined for him. That place is determined for him at the beginning of creation and driving angle is employed.

"The day they will be dragged through the fire on their faces, "Taste ye the touch of hell!. Verily, all things have We created in proportion and measure. And Our command is but a single like the twinkle of an eye".

-Al Quran 54 : (48-50)

Surah Al Qariah

1. "The 'Noise and Clamour' (The great calamity with tremendous convulsion): What is the 'Noise and Clamour'? And what will explain to thee what is the 'Noise and Clamour'. A day where on men will be like moths scattered about. And the mountains will be like craded wool."

-Al Quran 101 : (1-5)

2. "Then, he whose balance will be heavy, Will be in a life of good pleasure and satisfaction".

- Al Quran 101 : (6-7)

3. "But he whose balance will be light. His mother will be endless hole (blackhole). And what will explain to thee what this is ? A fire blazing fiercely".

- Al Quran 101 : (8-11)

Explanation

1. Big Crunch will explode. That explosion is the source of 'Noise and Clamour'. Due to that explosion matter will be like craded wool and people left on the Big Crunch will scatter in space like moths.

2. At that time, people for whom Zannat would be decided will remain in zannat in pleasure and satisfaction.

3. But the people whose sin will be found heavier than their good deeds (for whom hell will be decided) will be pulled away by blackholes. Basing on those blackholes, galaxies and quasars will form. There he will live forever.

Gradually the galaxy or quasar will mature. If the person is lucky he may find himself in a planet of his galaxy. If the person is unlucky he will find himself in a violent object of his galaxy. But if the person is very unlucky his blackhole will make a violent quasar.

Considering the number of galaxies in the universe and likely number of people for whom hell may be decided, it seems that one or a few people will be given a whole galaxy or a quasar. Even then lot of places in the universe (seven layers of hell) will remain vacant. So Allah will put His leg and then it will be filled up.

Though the person will have a very painful life but he is the vicegerent of Allah in his galaxy and he will achieve his right. We know basically human beings are the vicegerents of Allah and also His servant. But, since he was a disobedient servant on the Earth and did not remember Allah, so Allah will also forget him.

"It will also be said: "This day We will forget you as ye forgot the meeting of this day of yours! And your abode is the fire, and no helpers have ye"! -Al Quran 45: 34

A man will be given a galaxy or a quasar according to his deeds.

"Allah created the skies and lands (universe) for just ends, and in order that each soul may find the recompense of what it has earned, and none of them be wronged".-Al Quran 45 : 22

"We created not the skies and lands, and all between them, merely in sport. We created them not except for just ends: But most of them do not understand. Verily

the day of sorting out is the time appointed for all of them. - Al Quran 44 : (38-40)

"Behold! In the creation of the skies and lands, and the alternation of night and day-There are indeed signs for men of understanding. Men who celebrate the praises of Allah standing, sitting and lying on their sides, and contemplate the creation in the skies and lands "Our Lord! not for naught hast Thou created this! Glory to Thee! Give us salvation from the penalty of the fire. "Our Lord any whom thou dost admit to the fire, truely Thou coverest with shame, and never will wrong doers find any helpers"!-Al Quran 3 : (190-192)

A man in hell will live in a planet in his galaxy . As it is narrated in Hadith:

On the day of final judgment the Earth will urge to Allah saying that, "Oh Allah put me in one of your servant's hand who might be the lowest of all." Answer will come from Allah, "You shut up. In the world I did not like that any of them should earn you. Will I like it today? Never." -Kimia-i-Shahadat.

That is why Allah has created human beings. He will put a part of mankind in the planets of zannat as His vicegerents. Their orders will be materialised instantly. They will gain this power as soon as they arrive in their own location in zannat.

Allah will put another part of mankind in the galaxies and quasars of the new universe (hell). They are also the vicegerents of Allah but they will not get any help or power from Allah. Due to their violent location they will have a very painful life. But still people of hell will have some control. Normally their control will be through physical means (like on the Earth). But only

Allah knows the future. A time may come when a man in new universe (hell) will also gain reasonable control over his own galaxy.

"Do ye not see that Allah has subjected to your control all things in the skies and lands (universe), and has made His bounties flow to you in full, seen and unseen. Yet there are among men those who dispute about Allah, without knowledge and without guidance, and without a book to enlighten them"! -Al Quran 31 : 20.

"And He has subjected to you, as from Him, all that is in the skies and lands (universe): behold, In that are signs indeed for those who reflect". -Al Quran 45 : 13

In hell human being will have body with different nature. Size of human being will be different (Probably in relation to the object where he will live). Soul will be so strong that his body will not be destroyed due to fire. His body may deform but it will be repaired instantaneously by local material (due to his strong soul). He may not require any oxygen to live. On the Earth we require oxygen to live. Here we require oxygen to produce heat in our body. But in hell, human being will be in fire and heat. Since he will not die, the external heat may keep his body functional. Whatever is the atmospheric pressure on his object (hell) his strong soul will be able to keep his body in a desireable shape. But the people in very violent objects (like quasars) will be in a very different condition. They will be inbetween life and death.

"Who will enter the great fire. In which they will then neither die nor live". -Al Quran 87 : (12-13)

In hell people will be in vigorous punishment. There will be poisonous snakes and insects. There will be vigorous fire. Their

food will be fruits of the tree called *Zukkum*. Therefore, their development will be very slow. Even then development of human being is certain. Human being is not a creature to sit idle and get punishment forever. He is the *Asraful Makhlukat* (best of all creatures). He is the vicegerent of Allah.

However the universe is a violent place. Each individual should try to be rescued from here.

Al Quran –Surah Rahman (13-43)

- a. "Soon shall We settle your affairs, O both ye weighty mass (Thaqal). Then which of the favours of your Lord ye deny?" - Al Quran 55 : (31-32)

In this verse the arabic word 'Thaqal' means 'some thing weighty'. The verse tells about two 'Thaqals'. People explain it to be two worlds. Of course it means two worlds (universe and zannat) but why the word 'Thaqal' (some thing weighty) is used here is to be understood. This verse tells about the day of final judgment when all the objects of the universe will join together. That is one '*Thaqal*'. Another '*Thaqal*' will be composed of the planets of zannat. In zannat every thing has a better control. Those planets will gently come close to one another. They will not be crashed by collision. Allah will settle the affairs of both the universes (both thaqals) at that time.

- b. "O ye assemble of jinns and men! If it be ye can pass beyond the zones of the skies and lands, pass ye! Not without authority shall ye be able to pass ! Then which of the favours of your Lord will ye deny".

-Al Quran 55 : (33-34).

No body can go out of the universe without authority (universe at that time will be in the state of *Thaqal*)

- c. "On you will be sent a flame of fire and a smoke, no defence will ye have; Then which of the favours of your Lord will ye deny." -Al Quran 55 : (35-36).

Fire of hell will be exposed on the surface of the Thaqal.

- d. "When the sky is rent asunder, and it becomes red like red hide. Then which of the favours of your Lord will ye deny?" -Al Quran 55 : (37-38)

Thaqal (of the universe) will squeeze to extremely higher densities and will turn into Big Crunch. At the end the Big Crunch will explode and a new universe will born

- e. "On the day no question will be asked of man or zinn as to his sin. Then which of the favours of your Lord will ye deny? The sinners will be known by their marks: And they will be scired by there forelocks and their feet. Then which of the favours of your Lord will ye deny?" -Al Quran 55 : (39-42).

The sinners will be kept arrested within that new universe. They will be dragged away by the new born galaxies and Quasar.

- f. "This is the hell which the sinners deny."

-Al Quran 55 : 43

That new universe is the hell.

Summary

The universe is expanding now. Due to the pull of gravity the expansion will stop and the universe will begin to contract. At the end of contracting phase all the objects of the universe will join together. We have named it *Thaqal*. For sometime the universe will stand by at that state. On the *Thaqal* resurrection will take place and final Judgment will be carried out. After

Judgment good people will be shifted to another universe named zannat. Bad people will be left on the *Thaqal*. Then the *Thaqal* will be left in its normal course of evolution. Tremendous gravitational force will come into effect. Due to gravitational pull the *Thaqal* will be squeezed to extremely higher densities and will turn into Big Crunch. Big Crunch will explode (Big Bang-2) and a new universe will be born. Bad people will be scattered among the galaxies and quasars of that new universe. That new universe will be called seven layers of hell.

From Hell to Zannat

At the initial stage some of the people of hell will be excused and will be taken in the zannat. Then a time will come when none of the people of hell will be taken to zannat.

"They will dwell there in for all the time that the skies and lands endure, except as thy Lord willeth; for thy Lord is the accomplisher of what He planneth".

-Al Quran 7 : 40.

'Skies and lands' means the universe, but the universe at that time will bear the objects of hell (all violent galaxies and quasars). That is why that universe will also be called 'seven layers of hell.' The above mentioned verse indicates that, they will stay there until the universe again collapses (the universe is oscillating). Then they may be taken in zannat and the planets of zannat may be redistributed.

However another verse of the Quran indirectly says about the rescue of some people.

"To those who reject Our signs and treat them with arrogance, no opening will be there of the gates of skies,

nor will they enter the zannat, until the camel can pass through the eye of the needle: For those in sin"

-Al Quran 7 : 40

'Passing a camel through the eye of a needle' is a metaphor. When a camel can pass through the eye of a needle? It can only pass through, if the camel is thrown into a blackhole. The camel will instantly squeeze to the size of a dust or even smaller. I have already explained that blackholes are the pivots of the objects of hell (violent galaxies and quasars hold blackholes at their centre). The blackhole sucks the matter around it. In course of time a black hole may eat up all the matter of the galaxy/quasar. It may take millions of years. It is like the passing of a camel through the eye of a needle. A time may come when all the matter of a galaxy/quasar will be sucked away by the black hole inside it. Then the person of that galaxy/quasar will be released which the above mentioned verse indicates (As some scientists say that if an astronomer fall into a black hole will move to the parallel universe.- But do not hope to move through Big Crunch because it will explode in this direction. Or, Thaqal may explode from a nonsingular state).

However at the end of the verse number 107 of surah Hud it is also said :

"....except as thy Lord willeth: for they Lord is the accomplisher of what He planneth". -Al Quran 11 : 107

That means Allah may rescue a person at any time He wishes.

CHAPTER FOURTEEN

Man and Universe

Man is the best of all the creatures (*Asraful Makhlukat*). A man is a servant of Allah at the same time he is a vicegerent of Allah also.

Allah could govern everything in this universe alone but He has not done it. He has created *Lawh-Mahfuz*, created angels and bounded every thing in systems. Therefore, everything happens according to the plan which was made at the beginning of creation. This is how the present universe is being governed. What will be the system in the new universe (seven layers of hell)? Then throughout the new universe there will be ever living human beings. They will remain as vicegerents of Allah. They will get their area of responsibility for ever and will try to materialise their desire and plan to the best. However, control of *Lawh- Mahfuz* and angels will also remain effective in the new universe.

"Soon I will cast him into hell-fire. And what will explain to thee what hell-fire is? Naught doth it permit to endure, and naught doth it leave alone! Darkening and changing the colour of man! Over it are nineteen. And We have set none but angels as guardians of the fire"

- Al Quran 74 : (26-31)

Here 'nineteen' indicates the *Lawh- Mahfuz*. *Lawh-Mahfuz* and the guardian angels will remain in control of the fire of hell. That means a person in hell will not be able to reduce the fire at his will.

Lawh-Mahfuz and angels will control the nature of the new universe. At present also *Lawh-Mahfuz* and angels control the nature of the universe. But we do not see them or feel their existence. We know the natural systems and natural laws and use those for our benefit. In the new universe also it will be similar.

On the Earth human beings are sent as the vicegerents of Allah so that they are perfectly matured. The Earth is a training centre for human beings and a place to develop towards maturity. Here they are not empowered and has not got their responsibilities. Human beings will be matured on the day of final judgment. Resurrection is the real birth of each human being. On that day each human being will be sent to his destination that may be in the universe (hell) or in the zannat. Then onward he will be real vicegerent of Allah and will be duly empowered.

In zannat a human being will get immense power. His orders will be materialised instantly. However his command will be effective within his own area only. This area will be very big. The poorest man in zannat will get an object which will be ten times bigger than this Earth.

In the new universe (hell) also each individual will get a huge object. Number of galaxies and likely number of human beings should go to hell indicates that one or a few people will be given a whole galaxy. Their area will be very hostile. They will not get any devine power. They will gain control over their area through physical means. It will require a long time. The time will be very painful.

A man is a vicegerent of Allah by birth, of whatever religion he may be. As a vicegerent his destination is already determined. On the day of final judgment he will reach to his destination.

Man is also the servant of Allah by birth. On each individual Allah has absolute power. He can control his body and mind. However, Allah holds great honour and dignity. He by Himself do not control the mind of those who do not want His help and are not obedient to Him. They are normally left at their own. After final judgment Allah will forget them.

" It will also be said: "This day We will forget you as ye forgot the meeting of this day of yours! And your abode is the fire, and no helpers have ye!"-Al Quran 45 : 34

But those who all are loyal to Allah are brought up to be good servants. They will be rewarded vicegerents and will get power from Allah.

The Quran

1. "That He may make your conduct whole and sound and forgive you your sins: that obeys Allah and His messenger, will attain the highest achievement."

-Al Quran 33 : 71

Explanation

1. What is the 'highest achievement'? Getting into zannat and becoming Allah's vicegerent there, is the highest achievement. The poorest man in zannat will get an area which will be ten times bigger than this Earth. His orders will be materialised instantly. He will live there forever. The people who will be left in the universe are also vicegerents of Allah. But there abode will be very painful hell.

2. "He did indeed offer the trust to the skies and the lands and the mountains; But they refused to undertake it being afraid there of: But man undertook it, he was indeed oppressive and foolish."

-Al Quran 33 : 72

3. "Therefore Allah will punish the hypocrites, men and women and the unbelievers, men and women, and Allah turns His mercy to the believers, men and women: for Allah is Oft -Forgiving, Most Merciful."

-Al Quran 33 : 73

2. Trust of becoming the vicegerent of Allah was offered to everything of this universe. None undertook the responsibility but human beings undertook the responsibility at their own.

3. Responsibility of being vicegerent was taken by human beings at their own. Now they are to be employed in the zannat and in the universe. Naturally the zannat is peaceful and the universe is violent. Then who all are to be employed in zannat? It is a common sense answer that the people who all are liked by Allah will be employed in zannat. Who all are to be employed in the universe? It is clear that the hypocrites and unbelievers will be employed in the universe.

Human beings wanted to be the vicegerents at their own, now good people will be the vicegerents in zannat and bad people will be the vicegerents in the universe. And this universe will be seven layers of hell at that time (after final judgment).

But Allah is creator of all and He is most merciful. Therefore, He develops each human being to a state that he becomes suitable and capable to bear the responsibilities. This process of development has certain phases. In one of those

phases a man lives on this Earth. Each human soul will attain maturity by the time the day of final judgment is very near. Resurrection will be the real birth of each human being. The person destined for hell will be suitable to live there. The person destined for zannat will be suitable for zannat. Then onward they will live forever. There will be no death or destruction. This process of development towards the maturity is described below.

Composition of Human Being

Human being is composed of body and soul. To get a general idea on a human being one has to know about both. Those are described below:

What is Soul

Take the example of a magnet. What is magnetic force? We can draw the pattern of a magnetic field. It pulls iron. But by what it pulls? There is no rope or thread, even then it pulls. It is beyond human capability to explain what is magnetic force though we are using it in many of our instruments. Magnetic field may be a kind of soul.

According to Hadith every thing has got soul. Every thing we see or feel are either matter or energy. What could be the soul of matter or energy? Matter is composed of atoms. Does atom has any soul?

Something like magnetic field holds the particles or waves in an atom and gives its structure which may be called soul. Somebody may give them different scientific names and explain them as different kinds of forces (weak force, strong force etc.) but at the end it is the difference in name only.

Same argument may be applied in case of gravity. The major force which ensures the existence of stars, planets and galaxies

is not understood. On the Earth we feel its presence. It may also be a kind of soul. We say, soul determines the shape of our body. In nature gravity holds the matter and determines the shape of the objects.

When a body of matter is created with many atoms, the body as a whole gets a soul. Each soul of atom makes some contribution to produce the soul of the body. As for example : when an iron plate is given heat or electric charge, some electrons disengage from the atom and moves freely. But those atoms do not go away from the plate. This is called surface barrier. Here soul of the iron plate is the reason for making surface barrier. However, I think, if the body of matter is divided, soul will also be divided (keeping a trace in space) ; if two or more bodies unite soul will also be united.

Light, electric current etc also have soul. Light, electric current etc are electromagnetic waves. Here magnetic wave is their soul.

Matter is composed of atoms. Every atoms is dependent on its soul. In the same way light or any other kind of electromagnetic wave is also dependent on its soul. But souls are not dependent on matter. Take the example of the Earth.

Geographic north and magnetic north of the Earth is not in the same point. Magnetic north is located 812 miles away from the geographic north. This magnetic north is gradually drifting away. About once every 400,000 years the field completely reverse in direction. Study of fossil magnetism proves that during last 71 million years there have been 171 such field reversals. The Earth's magnetic field is similar to that produced by a bar magnet and equivalent to a magnetic field which could be produced by 1000,000,000,000,000,000,000 pounds of magnets kept side by side. The rotation of magnetic field shows that it's origin cannot be in the solid outer layers of the Earth. Probably it is caused due to is the liquid core of iron which may

rotate, thereby the magnetic field also rotates. Again it is to be remembered that the permanent magnetism is not possible in liquid iron (at 4000°C). Then, it may so happen that this magnetic field has an independent entity. It may not be dependent on the matter of the Earth at all.

However all these I have mentioned as examples. Soul of a human being may be something like those. If it is like those, it must be much more complex.

Each human being has two souls. Those are *Ruhh* and *Nafs*.

Every animal has soul. Such kind of soul a man also possesses which is called *Nafs*.

Among animals only human beings possess *Ruhh*.

Action of *Ruhh* in Human Body

"It is Allah that takes the *ruhh* at death; And those that die not during their sleep: Those on whom He has passed the decree of death, He keeps back but the rest He sends for a term appointed. Verily in this are signs for those who reflect".-Al Quran 39 : 42

The verse describes that the *ruhh* is taken away when a man goes to sleep. The *ruhh* returns when the man wakes up. It indicates that a man cannot sleep unless his *ruhh* is taken away. *Ruhh* keeps us conscious.

Only human beings have '*ruhh*'. Then how other animals can sleep? To answer - firstly, their sleep is not like the sleep of human beings. If one looks into the matter carefully one will understand the differences. Their sleep is not as deep as the sleep of human beings. Secondly, *ruhh* acts on human brain therefore human beings cannot sleep unless the *ruhh* is taken away but other animals do not have *ruhh*, their brain have such systems that they can sleep.

What is the function of *ruhh*? If we can understand the difference between a sleeping man and an awake man we will be able to understand the function of *ruhh*. A sleeping man breaths, his blood circulation continues, all knowledge remain stored in his brain but even his ears remain open he cannot hear, if he is asked a question he does not answer, he does not think, he does not show any reaction to the circumstances around. What is the cause of this state of unconsciousness? A man does not think while he sleeps. Then can we say, our *ruhh* does the thinking? We can not say that, because an one month old baby has *ruhh* but he also cannot think. To think one require language and knowledge. As the baby grows he learns to talk and gains knowledge and experience. Human brain keeps all those language and knowledge recorded. Like a computer, brain keep the language, knowledge and experience recorded. By those, brain can also think. Then what is the requirement of *ruhh*?

When a man sleeps a particular part of his brain remain inactive for which he cannot think. A particular part of brain is responsible to make us conscious (brain stem). I think, this part of brain make us conscious when our *ruhh* comes back.

To initiate thinking one has to know the circumstances around. For this, eyes, ears etc are required. Eyes, ears etc are connected with the brain. If the man is awake; that means, if he is conscious the brain initiate thinking according to the demand of circumstances. But the *ruhh* gives the final command whether the brain should continue or switch over to some other thinking. As for example, circumstances may allure a brain to think on a misdeed but a good *ruhh* by its mere presence will create unwillingness in doing that misdeed.

There is a muscle in the right chest. With this muscle brain has a nervous connection for which we feel sorrow and joy in the chest. Brain assess the situation of sorrow and joy but do not

involve itself to feel it. It transfer the feelings to the chest. Due to this nervous connection we feel the presence of mind in the chest. Therefore, from other direction, by controlling feelings in the chest, willingness or unwillingness in doing a work can be created in the brain. This is done by *ruhh* to control the brain. *Ruhh* connect with our body through this muscle in the chest.

Endeavour to concentrate the mind during prayer makes the soul efficient. In the Hadith it is said that the remembrance of Allah (*Zikir*) is like the food of *ruhh*. During prayer one has to concentrate the mind towards religion. In doing that *ruhh* acts on the brain which is a exercise for the *ruhh*.

I have described that *ruhh* is something like an electro magnetic field. It do not work as a machine or as an organ. Or, it is not programmed to work in different directions as needed. *Ruhh* by its mere presence keeps us conscious and according to its nature create willingness or unwillingness in doing a work. Religious faith and knowledge goes in favour of the *ruhh*. Wrong faith, wrong teaching goes against it.

To commit a misdeed normally one confront many obstructions. There are many religious/social bindings and threat. Therefore, when brain plan to commit a misdeed a *ruhh* with careless, weak, innocent nature will not be interested in doing that. As a result, people with careless, weak and innocent *ruhh* remain good in the world and will go to paradise after death.

"...zannat said, what happened to me that; other than the weak, innocent and careless people nobody entered inside me!"...- Hadith.

Arrogant and tyrant people are suitable for this universe (hell). They have strong *ruhh*. When brain plan to commit a crime; though there are risks in the crime there strong *ruhh* do not resist

them from doing that. As a result, they do misdeeds in the world and will go to hell.

"... hell said, arrogant and tyrant people are given to me" ... Hadith.

Brain may plan to commit a sinful work. It will drive the man towards doing that by generating joyful interest and feelings in the man's chest. To resist the man from doing the sinful work *ruhh* do not require to know what is good, what is bad? If the *ruhh* is weak, it will not get interest in doing a tough, risky and difficult work. Normally sinful works are tough, risky and difficult. It will transfer the feeling of unwillingness in the chest and from the chest the feeling will be transferred to the brain which will stop the man from doing that sinful work.

However, belief on God, religious knowledge, fear of punishment etc. also resist a brain from committing a sinful deed.

One may think why people determined for zannat should have weak *ruhh*? In this matter one should know that the weak *ruhh* is better than strong *ruhh*, specially for the person who wants to mix will Allah (*Fana-fi-Allah*). Allah have given strong rulhs to the persons determined for the universe (hell) who will have to face many dangers.

We do not know what is *ruhh* but I have indicated that it may be something like the magnetic field.

"They ask thee concerning the *ruhh*. Say : The *ruhh* is command of my Lord : Of knowledge it is only a little that is communicated to you".—Al Quran 17 : 85

When we command, we produce sound wave. Sound is a kind of energy. Command may be given through electromagnetic wave also. When a missile is guided after launch to hit a moving target many command signals are sent to guide

the missile. These command signals are electro-magnetic waves. Here magnetic waves can be compared with the '*ruhh*' of the electro-magnetic waves. To guide the missile to the desired target many command signals may be required. Now if I could give one command signal, if it could fix itself with the missile (like the magnetic field of the Earth), if it could assess the position of the moving target and could guide the missile accordingly, then I could say that the command signal has made a smart '*ruhh*' which can stay in the missile and guide it to the tagret.

For the functioning of our body a part of brain works. As for example, a part of brain works to run our heart. On those part of brain *ruhh* has no control. Without *ruhh* also our body remains functional.

When a man die, his body is destroyed through accident or disease. Thereafter *ruhh* cannot activate his brain. However, at the time of death *ruhh* is also taken away by angels.

After hard work our body and brain becomes tired. Then *ruhh* finds difficulty in activating the brain and goes out. Thereafter the man goes to sleep. Once the rest is complete the *ruhh* comes back and the man wakes up. However, there may be many other physical reasons for our normal day to day sleep.

Probably brain of human being is too complex (a very ambitious creation) which does not function at its own. Therefore, Allah gives *ruhh* from Himself which makes the brain functional.

Function of *Nafs*

Each human being has two souls. One is *Ruhh* another is '*Nafs*'. Only human beings have *ruhh*. Animals do not have any *ruhh* but they have soul. This type of soul human being also possess which is colled *nafs*.

Nafs sustain the body, care for existence and reproduction. Therefore, it is the centre of greed and sex. I do not deny the existence and function of physical systems. *Nafs* works with those systems. It is the basic soul of a human being and located throughout the body with its centre below the navel (umbilicus). Like *ruhh* it does not go out during sleep. It is taken away by the angel only during death as it is said in the Holy Quran.

"O Nafs, In rest and satisfaction. Come back thou to thy Lord well pleased, and well-pleasing unto Him. Enter thou, then, among my devotees! Yea, enter thou My zannat!" -Al Quran 89 : (27-30)

When Allah created Adam, this soul (*nafs*) brought life in him but did not activate his brain. Allah gave *ruhh* from Himself and Adam got up. Therefore, each human being have two souls. One is *nafs* another is *ruhh*. *Ruhh* goes out when the man sleeps. *Nafs* goes out once, when the man dies.

Function of Souls (*Ruhh* and *Nafs*)

Long before the creation of Adam and Eve all the human souls were created. Those were newly created weak souls. All are preserved and being sent one after another. When a woman conceives, an ovum and a sperm form a complete cell with 46 chromosomes. Cell begins to divide and human body start to form. After a few weeks souls are also sent in the mother's womb. Souls and chromosomes both ensure that the human body develop to a perfect shape. After a particular duration the child is born.

Day by day the child grows, at the same time his souls also develop. Earthly pain, sorrow, struggle, knowledge, joy etc gradually develop the souls towards maturity. Sinful deeds harm the souls. Rememberance of Allah (*Zikir*) is like the food of a soul and helps the soul to develop. In this way after a particular duration the souls achieve a particular state. When the man die the souls are collected by angel.

Next phase of development begins after death. After death souls are collected by angels and they keep those in '*Illi-in'* or in '*Sizzin'*. Souls of the people earmarked for zannat are kept in the '*Illi-in'* and souls of the people earmarked for the universe (hell) are kept in the '*Sizzin'*. In '*Illi-in'* or '*Sizzin'* souls cross a stage of development. At the end it attains complete maturity. On the day of final judgment all the souls will be released. They will be so developed that with local matter their body will be constructed instantly. System of formation in mother's womb will not be required at that time. However time of resurrection may also play a vital role in the formation of human bodies. I have already described resurrection may be a natural process on the *Thaqal*. From that time, souls will be permanently fixed with the body. From then, nobody will sleep or die. It is because of the permanent fixation of *ruhh* and nafs with the body. We know unless *ruhh* goes out from the body a man cannot sleep. On the Earth *ruhhs* are not matured. Here once a man becomes tired *ruhh* goes out and the man goes to sleep. Due to disease or accident if the body is destroyed, *ruhh* goes out and cannot come back. Even it comes back it cannot activate the body. But after resurrection souls (*ruhh* and nafs) will be matured. They will be permanently fixed with the body. So the people will never sleep or die. At that time human bodies will also be as such that they will not require to sleep. They will remain young forever. If any of their body is destroyed or injured; due to his developed souls it will be repaired instantaneously when ever suitable matter and situation is available.

Function of *Kalab*

Kalab is not like soul. It is a piece of flesh (muscle) located at the left chest of human body.

Prophet (sm) said, "There is a piece of flesh in the body of the children of Adam when that is purified whole body becomes pure, and when that one goes wrong whole body goes wrong. Know, that is *kalab*." -Hadith.

According to Hadith '*kalab*' of a pious man (*Mumin*) remains within two fingers of Allah. In another Hadith it is said that '*kalab*' of a pious man (*Mumin*) is the throne (*Arsh*) of Allah. That means, Allah controls the man through *Kalab*. This man is a perfect vicegerent of Allah. Because he is working according to the direct will of Allah.

We may say *kalab* is a piece of flesh through which Allah makes connection with human body. *Sufies* (muslim saints) detected that the piece of flesh is located at the left chest. It may be a piece of flesh connected with nervous system in which brain transfer the feelings. When we think, we are automatically concentrated towards our chest. In the chest we feel sorrow and Joy. Therefore, we feel the existence of a mind in our chest (in the *kalab* located in the chesf). Feelings comes from the brain in the chest. From other direction, if feelings can be controlled through this organ (*Kalab*), brain will be controlled. Probably, Allah controls the feelings here. Ultimately the brain of the man is controlled .

In the right chest, a piece of flesh with the same nature exist (like *kalab*) through which *ruhh* makes connection with our body (as I have described).

Since *kalab* is a piece of flesh in the human body after death it is not collected by angel (*Azrail*). It decompose with the body.

Through *kalab* Allah can control a human being. Therefore, orders of Allah can be materialised through human being. Orders of Allah also materialise through the *Lawh-Mahfuz* and angels. But that is a time consuming system. That means, the orders released from *Lawh-Mahfuz* millions of years ago is being

materialised in distant part of the universe at present. The more is the distance from *Lawh-Mahfuz*, the more is the time taken by angels to travel, then the order is materialised.

However, Allah holds absolute power on every thing in this universe. Instantly He can do whatever He wills.

"Verily when He intends A thing, His command is, "Be," and it is!"-Al Quran 36 : 82.

Such an extreme and absolute power Allah holds. The amount of power and control we possess on our limbs, Allah possess more power than that on every thing of the universe. But it is not likely that the owner of such a vast universe will involve Himself directly in day to day minor jobs. He knows and sees every thing. All minor jobs are done through His servants and through natural systems. Everything was written in *Lawh-Mahfuz*. It employs angels where required.

Allah is most powerful. He has created the universe and zannat. At present He is controlling through *Lawh-Mahfuz* and angels. Now everything is in the process of development. When they will mature, another channel of command will open up. That will be through human being. It will start from the beginning of the New universe (from the day of final judgment). Command through human being will be more charming and dynamic. But Allah will only use those people He likes. Others will be left at their own in hell and in Zannat. On the day of final Judgment there will be three groups. 3rd group will go to hell. 2nd group will go to zannat. 1st group will go to zannat but they are the group of Allah as well.

That relation of a human being with Allah may be deeper. It is narrated in the Hadith,

"Allah says, 'when I love any of my servants I be his ear with which he hears. I be his eyes, with which he

sees. I be his hand, with which he holds. I be his mouth, with which he speaks."—Hadith.

In another Hadith it is narrated,

"Man is like a horse whose back never remains vacant, either Allah is riding on him or the satan."— Hadith.

The persons whom Allah does not like, leave at their own and satan rides on them.

Allah holds great honour a dignity. Those who do not want Him, He do not go to them at His own. Satans misguide them. In the Hadith it is narrated,

"Each human being have a satan which is a bad *zinn*."
-Hadith.

That satan rides on the man. The man unknowingly opens up human horizon for the satan which is more beautiful and charming. That is why a satan zinn always tries, so that the human being of his concern fails to return to zannat after final judgment. Teacher of those satan zinns is Azazel who provoked Adam and Eve to eat forbidden fruit. The satan always provokes the man to do evil deeds. Therefore the man becomes misguided. His soul is harmed. The man forgets Allah and Allah also forgets (leaves at his own) the man. At the end, the man will be unsuitable for zannat. After the final judgment he will remain in this universe. The universe, full of burning galaxies is basically a home for *zinns* and is the hell for left behind people.

And those who all are loyal to Allah, there future will be nice. Allah will make them suitable for His service. It is narrated in Hadith, Allah is present everywhere. He is closer to us than our spinal cord. But we do not see Him because He is beyond 'seventy thousand veils of light'. It is difficult for us to understand the 'veils of light'. I think same idea could be expressed by saying that He is beyond many dimensions. Again we know four dimensions only and cannot visualise other

dimensions. Therefore what should we understand from 'beyond seventy thousand veils of light' or from 'beyond many dimensions' is not clear. Allah is present everywhere but we do not feel. His light is not exposed in our known dimension. A bit was exposed in front of prophet Musa and the hill named Turr burned. Nothing can sustain the pressure of His light. This light can be exposed inside human being. Human being is the home of Allah.

"Allah is the light of the skies and lands. The parable of his light is as if there were a niche and within it a lamp. The lamp enclosed in glass; The glass as it were a brilliant star: Lit from a blessed tree, an olive, neither of the east nor of the west, whose oil is well-nigh luminous, Though fire scarce touched it: Light upon light! Allah doth set forth parables for men: and Allah know all things. In houses, which Allah has permitted to be raised to honour; for the celebration, in them of His name: In them is He glorified in the mornings and in the evenings. By men whom neither traffic nor merchandise can drive from the remembrance of Allah, nor from regular prayer, Nor from the practice of regular charity: Their fear is for the day when hearts and eyes will be transformed"- Al Quran 24 : (35-37)

From above mentioned verses we may say that the light of Allah is present everywhere. This light may be exposed inside the beloved people of Allah. It is indicated that those people are the houses of Allah.

Knowledge

For resurrection on the day of final judgment DNA Programme (which is already there in *Lawh-Mahfuz*) and soul are not enough. '*Amal Nama*' is also required. Whatever knowledge a man gains on the Earth, whatever he does are recorded in two

places. Those are - brain and '*Amal Nama*'. '*Amal Nama*' is the record of deeds which are being written by angels. With each individual there are two angels who constantly writes whatever the man does. This is the '*Amal Nama*' of that man. After death, the brain of the man is destroyed. But all of his knowledge, experience, feelings etc remains recorded in '*Amal Nama*'. If our brain is compared with a computer, '*Amal Nama*' can be compared with a removable disk.

On the day of final judgment, after resurrection there will be no knowledge in the brains of human beings. They will not even know their own names. Then '*Amal Nama*' of each person will be hanged in his neck. Instantly through some arrangement all the knowledge written in '*Amal Nama*' will be transferred into the brain (The way a computer learns from its disk). Then the person will know, who is he? He will be able to remember all the events of his earthly life. However, probably his language will be changed. He will know the language in which the '*Amal Nama*' is being written. Then the '*Amal Nama*' will be detached from his neck and will be given in his left or write hand so that others can see that and that can be used for judgment.

"What! when we die and become dust (shall we live again?) that is a return far (from our understanding)". We already know how much of them the earth takes away: With Us is a record (*Amal Nama*) guarding (the full account)" -Al Quran 50 : (3-4).

By the help of souls and '*Amal Nama*' a man can be recreated. Resurrection will be the actual birth of each human being.

Here another aspect is also required to be highlighted. Knowledge is a very precious wealth of human being. Money and property cannot be carried after death but the knowledge will be carried forward through '*Amal Nama*'. Sometimes we read

something for once. Due to weak memory we cannot remember that. But whatever is read are also written in '*Amal Nama*'. Those knowledge will also be returned on the day of final judgment. Therefore, keep on gaining knowledge (specially scientific knowledge). Those who will be left in the universe, probably, for them knowledge will be only means to develop and gain control. The movies like '*Star Trek*', '*Battle Star Galactica*' etc are science fictions in present universe but something more than that may be a reality in new universe. But people of that new universe (hell), who will have no help from Allah will pass a very long painful time before they begin to achieve success. Therefore do not be charmed. Try for zannat. Be a good muslim. That is the only way to get the salvation.

Conclusion

This vast universe full of galaxies is expanding. In the Quran this universe is called 'skies and lands'.

Due to gravitational pull expansion of the universe may stop and the universe may begin to contract. At the end of contracting phase all the galaxies with all of their stars and other material will fall in the centre of the universe. The universe will come to a state of super dense Singularity. This Singularity at the end of the universe is called 'Big Crunch'. At that time resurrection will take place and the final judgment will be carried out.

Outside this universe there is another universe named 'Zannat'. After final judgment good people will be sent to zannat and the sinners for whom hell will be the abode, will be left on the Big Crunch.

Due to tremendous pressure and temperature the Big Crunch will explode (Big Bang-2) and a new universe will be born. Sinners will not die. They will be scattered among the galaxies

and quasars of the new universe. That new universe will be called hell.

Thereafter life of human beings as real vicegerents of Allah will begin with eventful, charming and endless time informt.

A part of everliving mankind will be distributed among the galaxies of the new universe as vicegerents of Allah. Another part of the mankind will be employed in the peaceful planets of Zannat as vicegerents of Allah.

The Quran

1. By the sky and the night visitant. And what will explain to thee what the night-visitant is ? The star of piercing brightness. There is no soul but has a protector (superintendent) over it.

-Al Quran 86 : (1-4)

2. Now let men but think from what he is created! He is created from a drop emitted. Proceeding from between the backbone and the ribs.

-Al Quran 86 : (5-7)

Explanation

1. Normal stars do not emit piercing light. The verses indicate special objects which are the sources of cosmic radiation (the radiation pierce deep into the earth). These verses indicate those and violent galaxies which harbours black holes Sources of piercing brightness.

2. A man is created for such a vast creation (may be for a whole galaxy) but that man is created from a very insignificant source.

3. Surely (Allah) is able to bring him back. The day that things secret will be tested. (Men) will have no power and no helper.

-Al Quran 86 : (8-10)

4. By the sky which returns (in its round).

-Al Quran 86 : 11

5. And by the land which opens out.

-Al Quran 86 : 12

6. Behold this is the word that distinguishes. It is not a thing for amusement. As for them, they are plotting a scheme. And I am planning a scheme. Therefore grant a delay to the unbelievers: Give respite to them gently

-Al Quran 86 : (13-17)

3. Allah, Who can create the man from such an insignificant source will also be able to create him on the day of final judgment.

4. Sky is all around our spherical Earth. Therefore, 'returning sky' means contracting universe. We have already described that due to the gravitational pull the universe will begin to contract.

5. At the end of contracting phase all the objects of the universe will join together. The verse indicates that vast land.

6. Allah is also planning a scheme for the sinfus. The expanding universe and its contracting phase are in the scheme of Allah. One day the man will die. After being resurrected he will think who has wake him up? Then he will find himself in a galaxy. The galaxy for which he was earmarked as a protector/superintendent.

However, those who will remain in the hell (new universe) will they be in punishment forever ? Parhaps not. One day each

person in the hell would be able to control the object for which he will be responsible. That may take a very long time. The man who does so much of struggle for this short earthly life, will he seat idle keeping an endless life ahead ? More so, on whom all the bounties of Allah seen and unseen will flow forever.

"And He has subjected to you, as from Him, all that is in the skies and on lands: behold, in that are signs indeed for those who reflect". -Al Quran 45 : 13.

"Do you see that Allah has subjected to you all things in the skies and on the lands, and has made His bounties flow to you in exceeding measure, seen and unseen. Yet there are among men those who dispute about Allah, without knowledge and without guidance, and without a book to enlighten them". -Al Quran 31 : 20.

Allah knows well about the endless time to come. He is most merciful. The Creator of all.

"And if all the trees on the Earth were pens and the ocean with seven oceans behind it to add to it, yet would not the words of Allah be exhausted: For Allah is exaulted in power, full of wisdom"

-Al Quran 31 : 27.

The End

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