

## Hypothesis of the Formation of the Earth Combining Scientific Discoveries with Hindu Scriptures

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**Abstract:** This paper can be taken as a hypothesis combining the facts scientists have discovered so far with the scriptures of Hinduism whose sages used meditation to merge with God to acquire seemingly similar knowledge. The paper can be looked upon as filling of the seams of the bricks formed by scientists who developed their knowledge via empirical measurements. The paper starts with the formation of earth and its current moving speed in the universe compared to other bodies around earth. The different layers of earth all the way to the atmosphere and the magnetism and gravity it exerts. The formation of the moon is then described. The paper then deals with how improbable the unique circumstances coincided on earth to foster lifeform and the consequent evolution. The next topic is the age of the universe and the 14 Lokas according to Hindu mythology. The reincarnation is talked about and how the early thinkers developed all their knowledge. The need for unity and complementary living of humans despite coming from very diverse backgrounds is stressed. Then the Avatars and the purpose of their life on earth is described in brief. Next what happens to souls as they leave earth is expounded upon. The last portion of the paper dwells on the desire for humans to engage in space travel.

**Keywords:** Earth, Space, Universe formation, evolution, Hindu scriptures, space travel.

### INTRODUCTION

#### Formation of the Earth

The third planet away from the sun is the earth we live on. It now has a diameter of 7908 miles (12,728 km) and has a mass of  $6 \times 10^{24}$  kg. The earth was formed about 4.3 billion years ago (Marov, M. Y. & Ipatov, S. I. 2021).

Today, the earth spins at a very fast rate of 1038 miles/hr (1670 km/hr, the Indian scripture figure is 1000 miles/hr). To determine this speed, a few factors are used. The earth rotates on its own axis once every 24 hours. The radius at the equator is 3954 miles (6363 km) so the equatorial circumference is 24855 miles (40000 km), thus the speed of the earth's surface, at the equator is  $24855 / 24 = 1038$  miles/hr (1670 km/hr). The earth moves around the sun at 66,487 thousand miles per hour (107,000 km/hr, the Indian scripture figure is 66,000 miles/hr). The sun moves in its own orbit through the Milky Way galaxy at 400,000 miles/hr. The Milky Way galaxy moves at 2.2 million miles/hr. The bold numbers above are to enable seeing the difference in the numbers. From these numbers, one can notice that the earth is moving slower than the sun, which moves slower than the galaxy. And the earth has less mass than the sun and the sun has less mass than the galaxy. Einstein said, as we increase our speed of movement, mass will increase and will reach infinity at the speed of light. Therefore, to travel fast you need mass and since a rocket has the lowest mass among these, it will have the least speed. This means traveling throughout space on rockets can be predicted to fail. The solution of

humans' desire to travel through space is given in the last heading in this paper (Siegel, E. 2015).

#### Formation of the Various Layers of the Earth

As the molten earth spun, dense material, predominantly Iron (Fe, about 80%) and Nickel (Ni, about 4%) and the heavy metals at the bottom of the periodic table moved to the center and lighter material like molten silicon moved to the surface. This seems counter logical because heavier material will go to the outside in a blender. But there are two forces at play here, initially centrifugal force will push the heavier material out but as the mass of the earth increases, gravitational force will increase and eventually exceed the centrifugal force causing the heavy material to move to the center (Borg, L. E. & Carlson, R. W. 2023).

In the early days of earth, there was constant bombardment by meteorites, intense volcanism, and a poisonous atmosphere. The nuclear fusion reaction (which keeps the sun hot) gradually ceased on the surface of the earth and the earth cooled down.

After millions of years, the top surface cooled to become the crust. Today there are four distinct layers of the earth, the inner core, the outer core, the mantle, and the crust. The core is a solid ball of iron and nickel. Then comes the outer core which is made of liquid iron and nickel. Surrounding this is the mantle, which is a hot and slightly viscous matter mostly made up of silicon dioxide. On top

of this, is the part that has enabled life, the cooler crust (Cawood, P. A. *et al.*, 2022).

### The Core

The core of the earth is about 1,800 miles (2,900 km) below the earth's surface. The inner core of the earth is slightly smaller than the moon. It is a dense ball of iron (95%) and nickel (5%), which constitutes 30% of the earth's mass and has a diameter of 3,029 miles (4,872 kilometers), which is almost twice the distance between NY and LA. It is divided into two layers, the inner core, and the outer core. The inner core has a diameter of 1,516 miles (2,440 kilometers), is at the center of the earth and is a crystal of iron and nickel; this diameter is slightly less than the distance between NY and LA. The pressure at the center is 3.5 million times surface pressure, which causes iron to solidify, even though the temperature is believed to exceed 11,000 degrees Fahrenheit which is hotter than the surface of the sun. This solid crystalline iron-nickel core spins faster than the earth. The outer core, which is 1402 miles (2,259 km) thick and is always molten due to the lower pressure experienced at this point (Cawood, P. A. *et al.*, 2022).

### Magnetism of the Outer Core

In ferromagnetic materials, unpaired electrons spin to line up with one another in regions called domains. Within the domains, the magnetic field is quite strong but the orientation of the electrons in different domains may not be the same, so the overall magnetism is canceled out. Ferromagnetism is caused when a permanent magnet or electromagnet is used to cause the magnetic fields in all the domains to line up with each other or the electrons in all domains are spinning in the same direction, either clockwise or anticlockwise. Similarly, when electrons move in the same direction in a coil of wire, that coil becomes a magnet (electromagnet). This is the process that causes the ferromagnetic material to be magnetized. Another fact about magnetism is the Fleming's Right Hand Rule, where the thumb, forefinger and middle finger are placed at right angles to each other representing F, B, I respectively, where F is the Force of the direction of movement of the magnet or the direction of movement of the varying Field density, B is the direction of the magnetic field, and I is the direction of movement of the current generated. As a magnet passes at right angle over a wire, current is generated in the wire. If the magnet is more powerful or is moved faster, more current is generated in the wire. But even if the most

powerful magnet on earth is placed over the wire, no current will be generated in the wire. The magnet must move back and forth over the wire, or it must vibrate over the wire. Therefore, just as the Big Bang created vibrations making the electromagnetic sound "Aum", it is vibration of the magnet over a wire that enables the electrical world humanity depends on today. Vibration is important in this universe in all aspects right down to copulation (Karunakaran, P. 2018).

Magnetism is an intrinsic property of ferromagnetic materials like iron, nickel and cobalt. But the iron at the inner core does not cause the earth's magnetism because it is too hot. Heating up a permanent magnet will make it lose its magnetism as the electrons in all the domains do not align anymore after that. However electric currents flowing in the earth's outer core, which is mostly of liquid iron, causes the earth's magnetism.

In the earth's outer core, liquid molten iron flows just as current flows within a wire. Electrons are easily released from the valence shell of iron atoms flowing in parallel to each other which is similar to electrons flowing parallel to each other in a coil that turns it into a magnet (an electromagnet). This is what causes the earth to have a magnetic force shield (magnetosphere) which protects it from extra-terrestrial electromagnetic waves and plasma (charged particles), mostly from the sun but also from other stars. This electromagnetic force must be differentiated from gravity which is another force of attraction which is proportional to the mass of an object. Scientists today are looking for earth-like planets by observing their distance from their stars, but it is not just the distance of the earth from the sun which enables life on earth. The coincidence of the magnetic force shield, the peculiar atmosphere, gravity, and lots of other factors must be just right to enable the pervasive life seen on earth (Lesur, V *et al.*, 2022).

### The Mantle

The Mantle is about 1,800 miles (2,900 km) thick and makes up nearly 80 percent of the Earth's total volume. Note that the inner core is 2,440 km, the outer core is 2,259 km and the mantle is 2900 km or all three, the inner core, the outer core and mantle are  $\approx$  2500 km. The inner core is solid, and the outer core is more liquid than the mantle. The material of the Mantle is at about 1000-2000°C and flows like a very viscous fluid equivalent to caramel or thick honey. Its viscosity is about 20

times higher than that of water thereby moving at only a few centimeters per year. It must be noted that the deepest hole ever dug was done by the Russians (Kola Superdeep Borehole) and it is 7.6 miles (12.3 km) deep while the crust of the earth is 19-43 miles (30-70 km) thick. Therefore, humans have not dug holes to reach the Mantle yet. It would, however, be incredible to dig towards the Mantle and utilize that heat to drive steam engines to help produce electricity for the needs of humanity without incurring pollution. It is already being done, mostly in earthquake prone regions, where the heat is closer to the surface of the earth's surface, and this is called geothermal energy.

**The Crust**

The Crust is the upper layer of the earth. The Crust is fractured into more than a dozen overlapping tectonic plates. These tectonic plates have different thickness at various places on earth. The Crust under the oceans can be only about 4 miles (7 km) thick, of dense and heavy ballast rock, while the Crust under the land mass can be about 19-43 miles (30-70 km) thick, of lighter granite rock. These tectonic plates continuously slide atop the hotter layers below. The overlapping points between plates are called subduction zones which are where the biggest earthquake strikes, destroying whole cities or causing huge tsunamis and changing earth's map slightly each time. The eruption of volcanoes also most often occurs at the boundaries between the plates. However, thankfully most of the meeting points of the plates are beneath the oceans, so they do not affect the population above it as much; the infamous Aceh earthquake is an exception where an earthquake in one of these subduction zones causes tsunamis which killed over 200,000 people.

The Crust moves at a rate of about one inch (2.5 cm) per year. The strength of this movement is tremendous. As an analogy, a hit on a person by a toy car driven by a child will not really hurt, but a hit by a truck at five miles/hr could break a bone. The collision of the Indian plate onto the Asian plate caused the formation of the Himalayas. This collision is still going on resulting in the current growth of the Himalayas by two inches (five centimeters) every year.

Another case is the Pacific plate, which is drifting northward, scraping along the edge of the North American plate. The result of this tremendous force is the San Andreas Fault, which cuts vertically through the state of California for nearly

700 miles (1,125 kilometers). This 100-million-year-old crack in the crust between these two plates is 20 miles (32 km) deep (Stracke, A. 2012).

**Formation of the Moon**

After the earth cooled and formed its final structure, a meteorite, which had 10% of the earth's mass collided with the earth and deposited most of its mass onto the earth. This collision increased the speed of the earth such that the length of a day was only five hours.

This collision was at such an angle that 1/81 of the resulting earth's mass went up to a particular orbit. There was one major concentration of mass in this orbit and other particles spewed in the same orbit over earth due to the same initial force exerted. Eventually all the particles collided with the largest mass to form the moon as we see it today.

The diameter of the moon is 400 times smaller than the sun, but the moon is also 400 times less far away. This coincidence causes the moon and the sun to appear roughly the same size.

The moon's composition came mostly from the mantle and crust of the earth, which explains why it lacks iron (and other heavy metals) which lowers its mass and therefore has a gravity of only 1/6 that experienced on earth.

The probability of such an impact happening is very small anywhere in the universe. It is this collision, and the formation of the moon that stabilized the tilt of the earth and caused a whole host of incredible coincidences which enabled the evolution of life-forms on earth. Table 1 shows the composition of Earth's and Moon's soil.

**Table 1:** A comparison of a typical earth's soil versus the moon's soil.

Elements	Earth's soil	Moon's soil
H	2.10%	
C	1.60%	
O	57.70%	42.00%
Al	5.00%	7.00%
Si	27.10%	21.00%
K	1.30%	
Ca	4.10%	8.00%
Fe	1.10%	13.00%
Mg		6.00%
Others		3.00%

The lack of H, C and K on the moon could be explained either by the fact that it got burnt away

in the explosion or the moon acquired more of the composition of the meteorite that collided with the earth (Kelley, L. 2025).

**Table 2:** A comparison of the dimension of the earth versus the moon.

Earth	Moon	% of moon vs earth
12742 km	3474 km	27
$5.97 \times 10^{24}$ kg	$7.35 \times 10^{22}$ kg	1
$9.8 \text{ m/s}^2$	$1.62 \text{ m/s}^2$	17
$510 \text{ km}^2$	$38 \text{ km}^2$	7
$1.08 \times 10^{12} \text{ km}^3$	$2.19 \times 10^{10} \text{ km}^3$	2

### The Atmosphere

The original atmosphere of the Earth consisted of hydrogen and helium. These light elements were, however, heated by solar radiation and escaped.

Initially the earth was like the sun, a ball of fire where nuclear fission and fusion continuously occurred. Subsequently it became a ball of ice because space is cold ( $-270.45^\circ\text{C}$ ) and the earth did not have the air layer to insulate itself against that cold. Eventually as there was a build-up of atmosphere, portions of ice covering earth melted into water and life started evolving.

The volcanoes formed the atmosphere by spewing out effluents in the proportion of water vapor 55%, carbon dioxide 24%, sulfur 13%, nitrogen 5.7%, Argon 0.3% and chlorine 0.1%. The constant collision of water holding meteorites on earth in these early days also contributed large amounts of water to earth. Most of these effluents became clouds surrounding the earth. The large amount of carbon dioxide, which emitted from the volcanoes, is now mostly locked up in rocks such as limestone.

The effluents from the volcanoes became heavy clouds that enveloped the earth in darkness for millions of years. Then a downpour started, which lasted for a few 100,000 years. This caused the formation of rivers, seas, and oceans (Kelley, L., 2025).

### The Creation of the First Life Form

The few hundred thousand years of rain also came with a continuous stream of lightning bombarding the surface of the earth. This was caused by the collisions of the clouds which consisted of dust and water vapor. This lightning caused reactions,

which fused various combinations of gases and elements to eventually form the first simple bacteria. Tidal forces caused by the newly formed moon were also a key in promoting the first stages of development of life.

Cyanobacterium was among the first microbes formed. It is the simplest single-celled life form known. This microbe first appeared at the bottom of the sea about 3.5 billion years ago. They were unicellular bacterium, but some can be up to 0.5 mm long.

Today cyanobacteria are a relatively substantial proportion of the marine plankton, which are tiny organisms, which wander in the oceans, they could be bacteria, plants, or animals like jellyfish. In the tropical seas, there can be up to 100 million cyanobacteria in a liter of water. They have a cell structure called the prokaryotic cell. The cell wall encloses a liquid called cytoplasm, within which a single strand of DNA is attached at one point to the plasma membrane. There is very little internal organization within the cell.

These prokaryotes multiply by simple cell division, forming clones or exact copies of themselves. The offspring has the same genetic code as the parent; imagine looking exactly like the rest of your family. This explains why, even though the earth was filled with cyanobacteria, evolution to other life forms happened only after a billion years. Thus, for a period of one billion years, cyanobacteria were the main life form on earth.

Today one can still find this moss like stromatolites thriving in Australia, at Shark Bay (Kana)

The cyanobacteria gathered on rocks, which are now called stromatolites. Later as other life forms evolved, cyanobacteria became food, and their numbers decreased (Arthi, D *et al.*, 2021).

### Production of Oxygen by Cyanobacteria

With an atmosphere and sufficient warmth, cyanobacteria became the dominant life all over earth. There was no other lifeform to disrupt its growth. It was the cyanobacteria that enabled other lifeforms to exist on earth, because after a billion years, they produced enough oxygen through photosynthesis to satisfy the absorption by the minerals on the earth's surface (oxidation), as well as to change the composition of the earth's atmosphere. Cyanobacteria changed the earth's atmosphere from a sulfur dioxide, nitrogen, and

carbon dioxide rich mixture to the present-day air composition of gases as shown in Table 3.

**Table 3:** The composition of gases on earth currently

Nitrogen	78.08%	
Oxygen	20.95%	Total N <sub>2</sub> & O <sub>2</sub> = 99%
Argon	0.93%	
Carbon Dioxide	0.04%	

Other less common atoms and molecules include water vapor (which can range from 0 – 4%), hydrogen, ozone, methane, helium, neon, krypton, and xenon (Sánchez-Baracaldo *et al.*,2022).

**Other Life Forms Evolved from Cyanobacteria**  
 Eventually the source of food (sunlight) became scarce as the whole earth was covered by cyanobacteria. The struggling plants at the losing end, just below the “fat” top layer, were desperate for food and evolved the ability to move to spots where there was sunlight. An example is the common plant called Mimosa pudica whose leaf closes upon touching it; there is also a pitcher plant that moves to trap insects inside.

Over time, even the spots of sunlight became scarce and some plants out of desperation took the big step of being “cannibals” (herbivorous) by eating the neighboring plants. After millions of years, these moving plants became small animals, which evolved to become fishes. Since food was plentiful for these fishes, they eventually became huge. The proliferation of herbivorous fishes resulted in a reduction of plant life, resulting in food deprivation for the smaller fishes. Out of desperation in their search for scarce plant food, some herbivorous fishes took a giant step of being “cannibals” (carnivorous) by eating their fish neighbors.

The herbivorous fishes which were now pursued by carnivorous fishes eyed the plentiful vegetation at the beaches. This vegetation grew after the poisonous volcanic atmosphere cleared into a fresh oxygen filled one, thanks to their (and our) ancestors, the cyanobacteria. Some desperate herbivorous fish took a giant step of wriggling over the hot beaches to have a mouthful of this vegetation and wriggling back each day. Over time, these fishes evolved hard backs and bottoms to withstand the heat of the beaches thereby evolving into tortoises. From the tortoises evolved the other land-based animals (Doerr, B. & Neumann, F. 2021).

**The Various Ages of the Universe**

When Brahma wakes up, creation comes to live and when he goes to sleep there is a temporary suspension of activity. Brahma started life with the Big Bang and will end his life with the Big Crunch after 100 Brahma years. With each Brahma year having 365 Brahma days, each day has 12 Brahma hours of night and 12 Brahma hours.

Of the four ages, Kali yuga = 432,000 years, Dwapara yuga is double that and Treta yuga is triple that and Sathya yuga is four times that. That is 1+2+3+4 = 10 Kali yuga spans of time is one Maha yuga which is 430,000 X 10 = 4.32 X 10<sup>6</sup> years.

1000 Maha yugas is one day for Brahma and is called a Kalpa and is 4.32 X 10<sup>6</sup> X 1000 = 4.32 X 10<sup>9</sup> years

Another 1000 Maha yuga span of time is one night for Brahma and is called a Prayala.

Therefore, a Brahma day & night is 4.32 X 10<sup>9</sup> X 2 = 8.64 X 10<sup>9</sup> years

A year of Brahma is 8.64 X 10<sup>9</sup> X 365 = 3.1536 X 10<sup>12</sup> years.

Brahma’s lifespan is 100 Brahma years is 3.1536 X 10<sup>12</sup> X 100 = 3.1536 X 10<sup>14</sup> years. After which the Big Crunch occurs. Note that 3 + 1 + 5 + 3 + 6 = 18 and 1 + 8 = 9. Many Hindus in India do such calculations for their home or car plate number and prefer it to add to 9. This is because 9 represents God since multiplying anything with 9, even a giant number and the sum of the digits of the answer will eventually add to 9. Meaning God is 9 and whatever you do to 9, it ends up back to 9.

Coincidentally modern-day scientists determined that the earth to be 4.54 billion years ≈ 4.32 billion years which is the Hindus scriptures’ span of time since the beginning of the last Kalpa since we are currently living on the 1<sup>st</sup> day and 1<sup>st</sup> month of the 51<sup>st</sup> year of Brahma’s 100 Brahma year lifespan. Therefore, the last Big Bang happened 3.1536 X 10<sup>14</sup> X 51/100 = 1.608336 X 10<sup>14</sup> years ago or 160833.6 billion years ago and not 13.8 billion years ago as our scientist has currently determined. Coincidentally 1+6+0+8+3+3+6 = 27 and 2 + 7 = 9.

There are four types of pralayas, namely, nitya prayala, naimittika prayala, praktika prayala and atyanti pralaya. Nitya prayala is when you go to sleep and the world you know of disappears. Only when you wake up, you remember everything. Next is naimittka pralaya when Brahma wakes up from his night, the end of his sleep. This starts with the Big Bang. Next is praktika prayala when

Brahman ends his day, the end of his wakeful state. This is the Big Crunch which Stephen Hawking talked about. Next is atyantika prayala when you realize divinity, and everything disappears, when your world crashes to nothing because you have become God.

In each of the 4.32 billion years, there are 14 Manus. A Manu is a beginning being who starts one set of creations which could be human beings or others (Marov, M. Y. & Ipatov, S. I. 2021). The last Manu that is acknowledged by Christians and Muslims to be Adam.

Changes occur in the thought processes of beings of the world through the four sections of the 4.32 million years which are Sathya, Treta, Dwapara and Kali yugas. For the first period of 1.44 million years or the Sathya yuga, beings of the world are in full consciousness. Beings get less conscious over the next three yugas, as if getting gradually more and more drunk with desires. An analogy is a table with four legs. In the Sathya yuga all four legs of their consciousness are present. In the Treta yuga, the table of consciousness stands on three legs and in the Dwapara yuga the table of consciousness stands on two legs and, in the Kali yuga the table of consciousness stands on only one leg. Thus, beings are more realized at the first of the four yugas and less realized towards the fourth yuga which is of 4.32 million human years (Pal, R., Pal, R. *et al.*, 2023).

This explains why during the Kali Yuga; many cruel humans overlook the future consequences of their actions either in this life or in future lives. The stories illustrated in this book indicate how pure and superior in intelligence as well as physical might, human beings were in previous yugas when they had more than “one leg” of consciousness.

However, of the four yugas, the Kali yuga is far more congenial than the previous three (Sathya, Treta, and Dwapara) for the acquisition of wisdom and the cultivation of discrimination because humans have many simple paths for liberating themselves. In the Kali yuga, the simplest spiritual activity of all can be used, which is always reciting the name of God or by always thinking of his glory. But some who read about the Kali yuga are scared because they believe the ultimate disarray will occur (like the movie 2012) and others call it the age of conflict. But through this apparent mess, there will be a few heroes among humans who can learn the difference between right and wrong. The

Kali yuga was stopped on 10/23/2015, 12:15 by direct divine intervention and the current yuga is Sathya yuga.

A human soul disappears during the Brahman night and reappears again during the Brahman day. Just as we disappear during a dream and appear back when we wake up. For example, a person named John knows his name, knows how his body looks. But as he sleeps and dreams, he forgets that his name is John, does not remember his body form, his home, family, community, country, earth and its surroundings. When he wakes up, he remembers everything. But in the dream as well as in the wakeful state only one thing remains true and that is his consciousness; how he behaves in both states are the real him. For example, this author has been reminding himself that he is God since 2011; everything was created by God therefore everything is God and the realization that we are God is the final achievement of a human being. Because of that long practice of reminding himself that he is God, even in one of his dreams, he was telling someone else that he is God.

The soul must continue to be reborn till it becomes Brahman, and this must happen right through Brahman’s day and night. When you attain Brahman in this earth’s daytime you are called Jivamukti and when you attain Brahman upon death you will be called Videhamukti. Jivamukti is superior to Videhamukti.

There are 14 lokas, starting from the top they are named: 1) Brahma 2) Tapah 3) Janah 4) Mahah 5) Suvah 6) Bhuvah 7) Bhuh (EARTH), 8) Atala, 9) Vitala, 10) Sutala 11) Talatala, 12) Rasatala 13) Mahatala 14) Patala-loka.

If a human passes away in the daytime, they will generally go to the higher lokas and if they die at night, they will go to the lower lokas. Of course, this cannot be artificially induced like remaining on a ventilator till the appropriate time. But if a human did great deeds and ended up in the Brahma loka, they must come back upon finishing their merits. Non-earth lokas are just rest time, the real exam is here on earth. In non-earth lokas, they may enjoy various things like dancers (Apsaras), food and music. The higher lokas are generally preferred by people to attain. But the time you spend in any of these lokas are limited. One of the greatest learned scholars was a child named Nachiketa who told Yama (God of death) he is not interested in his offer to him of living in Svargaloka enjoying dance, music and pleasures

for 1000 years because it has to end. Nachiketa was only interested in being a Jivamukti.

For those praying and loving a God form there are subset lokas. Praying to Vishnu will take you to Vishnu loka, praying to Rama will take you to Saketa loka, praying to Krishna will take you to Brindavan loka, praying to Brahma will take you to Brahma loka, praying to Shiva will take you to Kailasa loka and so forth. But the time a human can spend in these lokas are limited according to the merits accumulated while on earth. The Jyanis do not care for any of these lokas, they just focus on how to become God themselves (Jhunjunwala, B. 2021).

Humans must know the real goal of life is always thinking of God as we perform duties. We should realize the value of this attitude and not be like a monkey which is holding a valuable diamond; you throw a stone at it, and it will throw the diamond back to you.

### **The Cycle of Birth of Death**

Upon dying, a being will go to the universe of light (heaven) and enjoy the merits of activities one performed while on earth. Or he/she may suffer in hell which is deep below earth as well as a portion of the universe of light.

As an example of the weightage of punishment for crimes, there is a case in the scriptures of a man who told only one lie in his life. He was sent to hell for one hour before proceeding to heaven; he is Yudhishtira of the Mahabharata story.

A great boon for a human is to be born again in a family which inculcates spiritual energies. One must avoid the draining of energies and one of the biggest drains of energies is sexual energy. To illustrate this, Vishwamitra was a great sage with so much spiritual power that he created another universe. Prior to being a sage, he was a great king who got defeated by a great sage named Vasista. From this he realized spiritual pursuits are far superior to military capabilities. Vishwamitra then started delving deeply into spirituality and achieved the capability to even create a new universe which led to Indra (the king of Gods) putting a stop to his activity. To achieve this, Indra sent an agent goddess named Menaka to seduce him, and it actually worked, and they had a child named Shakuntala. Of course, he eventually found out what was going on and abandoned her, refusing the emotional blackmail of the need to take care of their child. He went to the Himalayas to continue his spiritual pursuits. And Menaka

went back to heaven; secretly she was just an agent of Indra and did not have motherly feelings for her daughter, Shakuntala. Shakuntala was brought up by Sage Kanva in his ashram. She later married king Dushyanta and their child, Bharata expanded the Indian empire to the furthest extent in history spanning from Europe to all of Asia. The Sanskrit name of India is Bharata, named after that emperor of India.

A common span of time a person spends in heaven is 10,000 years. After spending this time in heaven, the person will come back to earth (rebirth) as a being in accordance with the merit accumulated in the past lives. It is common for a man to come back as a woman or vice versa. But it is very rare for a human to come back as an animal other than a human unless they lived an extremely cruel or adharmic (not according to your calling or unrighteous) life.

To be born as a human is a very great achievement in the universal scheme of things. Even very cruel humans generally come back as human but with numerous medical or social problems. Here on earth, he or she will try again to achieve the goal of self-realization that we have always been God. It may take millions of births but reaching this goal must eventually occur.

Why then do we not have the memory of our past lives? Some people do have memories of their past lives. There have been many recorded cases of people all over the world remembering a previous life. Some young children, for example, can go to a strange home and tell the family things which only members of that family know. Highly evolved beings have full memories of their past lives. But for most of us, this amnesia is very useful. If a person was a great murderer in one life, he would have filled his mind with all the tactics of being cruel. Even as a baby he will have memories of murderous tactics and will not be able to turn over a new leaf (Chandel, P. K. & Chetiwal, K. 2024).

There is a growing realization among top scientists that the universe is more a thought process, which manifests itself as the physical world rather than a physical universe on its own. Everything started with the Big Bang, so everything is God; the difference lay only in the varying degree of consciousness that we are God. A human being is God as much as a cow, a bird, or a stone. A human being breathes 21600 times a day making the sound, "so ham" which means, "I am That" in

Sanskrit. Thus, we tell ourselves we are God 21600 times over every 24 hours (Karunakaran,P. 2024).

Realizing this unity of all creation is a will of God in the opinion of this author who has experienced his hockey team, which was the most multiracial in his city, always coming out as champions. Then there is the multiracial USA being the largest economy on earth. Unity in diversity is divine which pushes away sorrow. The verse in the Bhagavad Gita which indicates this is that God will take care of the needs of those who see divinity in everyone and everything. Therefore, if we see divinity in all the different races of people and all the variations seen on earth, we will be specially taken care of by God (Karunakaran,P. 2024).

The world is always changing depending on time, space, and circumstances. The early human thinkers were not satisfied with the temporariness all around. They wanted to be happy. The objects of the senses were all temporary. Say you liked some dish but after consuming it, the happiness leaves you. Like a child who is given ice cream. For the first cup he will be very desirous of it and will be even happier to get a second cup and a third cup and a fourth cup. But by the fifth cup, he must be persuaded to eat it, and he will totally refuse to eat the sixth cup. The happiness and desire to consume ice cream which was so high before the first cup and even higher before the second cup has disappeared. This is the same boy and the same ice cream, but the desire has disappeared. This is the same for all objects of desire like wealth, fame, name, and progeny. By increasing it beyond a certain limit, there is no further happiness. Humans were not getting permanent happiness; every joy was temporary. The early thinkers realized this. Of course, there are also humans who keep hankering after the material source of joy till they destroy themselves, like drug addicts. Their desires are like a fire burning a pile of wood, they keep satisfying the fire with more wood (more drugs) till the fire consumes them. Some justify getting into desires (like intoxicating drugs) to eventually get rid of that desire, but the truth is that indulging in it can consume the person (Karunakaran,P. 2024).

The early thinkers then thought the forces of nature must be the source of power to which they can turn to get answers in their quest to get permanent happiness. So, they prayed to the wind, oceans, rivers, mountains, earth, and lightning.

These forces became their Gods. They gave reverential names to them and started worshipping them as Gods. But eventually they realized all these forces have connections to each other. Man, for example, came from the five elements (earth, water, fire, wind, and ether) and will eventually merge back into them. The early thinkers then realized that there is an underlying unity in the existence we see.

For example, electricity may power a light bulb to give light, a fan to provide wind, an oven to produce heat or an air-conditioner to produce cool breeze. But the underlying electricity in the wire is the same. These seekers of old analyzed this way and cannot find the divinity outside, due to a lack of guidance. For example, Isaac Newton pondered about the apple dropping; everyone knows that an apple will fall from a tree, but Isaac decided to ponder on why it happens. He called it gravity (he shifted the meaning of an existing word). This unbiased questioning is critical in science as well as spirituality. But Isaac's quest was external which led to his mental problems later in life. The moment a human question who he/she is, they start their spiritual journey. These ancient seekers were trying to find the basis for everything and finally realized the answer was not outside. They started with concentration like observing the apple falling, then they began to contemplate and finally began meditating.

They finally realized that there is tremendous intelligence in everything in the world. So, the basis for everything must also be extremely intelligent. This super intelligent being is managing things, bringing about things and taking it back. Finally, they decided to look within themselves and were so happy to find all the answers.

The source of everything has three characteristics, which are truth, auspiciousness (intelligent and always seeking to do good without self-interest) and beauty (Sat, Chit, Anadam in Sanskrit). Most of these successful seekers were so happy to find the answers and just kept it to themselves as it was difficult to communicate such ideas in human languages to others. But a few decided to code it, and this became the Vedas. So, the Vedas is not one book or written by one person, it is a whole array of knowledge attained by these seekers over thousands of years who all reached almost the same understanding themselves via self-inquiry.



Some later seekers decided to write a compendium of all the previous discoveries. It is like the ever-growing knowledge of physics, chemistry, and biology of today. Some ideas are being debunked over time. But to disregard all those intelligent thoughts and solutions which were discovered by these great seekers is like throwing away all the research found by modern scientists in physics, chemistry, or biology because some scientific facts have been proven wrong over time. Humans have engaged in such crazy activities via book burning, like the burning of the Nalanda university which had a huge library where the books took three months to completely burn.

One seeker named Veda Vyasa decided to compile all this knowledge based on the inputs given by other seekers. He categorized it into four categories. Vedanta (the realization that we are God ourselves) is a deeper experience within all these truths and is contained in the Upanishads. Sanatana Dharma came out of this, and Hinduism, Buddhism, Jainism and Sikhism are offshoots of Sanatana Dharma. This is just like different schools having different dress codes and some unique cultures for students, but the knowledge acquired is the same.

The Vedas are inside of everything, from a stone to animals to humans. The stone is not able to consciously understand it, the animals are better at realizing it and humans have the greatest ability to be conscious of it. The Vedas are the full knowledge of everything, ranging from the rudimentary knowledge of basic living and relationship with others, to science, including the ultimate knowledge, which is that we ourselves are the all-powerful God. The earliest codification of the Vedas is the Rigveda which is a collection of Sanskrit hymns.

As beings get more intelligent from stones to fishes, terrestrial animals, and finally to humans, the Vedas within become increasingly liberated or less tied down by the ropes of attachment to the material world. Among human beings also, there is a varying degree to which the Vedas are exposed to the mind. Basically, the Vedas are tied down by ropes of material attachment to the world in lower manifestations of God (stones, trees etc.), as the manifestations increase in quality; the ropes of desires are cut, thereby exposing the real God within.

For very highly evolved beings, the thought process is so powerful that they can see beyond the

normal three dimensions that we normally perceive. They can travel through the fourth dimension of time. They can create any physical objects, out of thin air, just as Brahma's thought created the Big Bang and the universe. They can cure people of any medical condition as their minds cause the appropriate movements of organs within their patient's body to achieve the cure. Thus, their minds can replace all the complex instruments and procedures of a typical hospital operation. They can get things to move, replacing the multi-million lines of software, electrical wiring and mechanical fabrication engineers normally perform to achieve the same result.

These feats are possible due to the knowledge they gained through meditation and penances which had cut specific ropes of desires which previously tied down the Vedas within them.

Note that the penances recommended for achieving this state vary in different yugas as below:

For the Sathya yuga – meditation.

For the Treta yuga - mantras (or a particular string of words pronounced correctly, to unleash power).

For the Dwapara yuga - ritualistic worship of God.

For the Kali yuga (current age) - the repetition of the names of God.

### **The Avatars**

The earth is the most special place in the entire universe. It is an incredible coincidence that enabled life, the perfect distance of the earth from the sun, the magnetic force shield, the formation of the moon, the oxygenation of the atmosphere by cyanobacteria. It is the only place in the entire universe where beings can change their destiny from a lowly evolved soul to a highly evolved soul.

There are life-forms on other planets or moons of the universe wherever temperature, e-m radiation and other environmental factors fall within a certain range, but it is only on earth where a change of spiritual destiny can happen. To understand this, just go to a very advanced city and you will feel like a machine and less human. Similarly, beings on other planets may be advanced but lack human spirituality. Even Gods need to come to earth to increase their spiritual levels.

To ensure beings of earth do not stray from the right path, highly evolved beings have come down to earth as guides. During each of the 1000 four-cycles-of-yugas, beings of the earth have contact

with these highly evolved beings for the number of times listed below:

800 for the Sathya yuga

600 for the Treta yuga

400 for the Dwapara yuga

200 for the Kali yuga

Top spiritual leaders of the world are among 200 highly evolved spiritual beings that came during the Kali yuga. So, who is the Almighty God? God in the full form (the Avatar) has come down only ten times. The infinite, indescribable and indefinable God is called by various names in different languages. He split himself into three, namely:

- 1) Brahma (the creator)
- 2) Vishnu (the preserver)
- 3) Shiva (the destroyer)

The infinite aspect of God as Vishnu has incarnated nine times, and the infinite Shiva aspect has incarnated as the tenth incarnation to guide beings on earth whenever they go astray (Karunakaran, P. 2024).

Vishnu came down in bodies according to the needs of the time, following Darwin's theory of evolution. The first form of God was that of a fish, then as animals gradually began to move to the lands, God incarnated as a tortoise. Later as tortoises evolved into pigs which began to populate the lush vegetation filled surface of the earth, God incarnated as a pig to eat the flattened fruits that fell from 300-400 feet tall trees with their flat mouths. Later as all animals of the forest evolved, God then came as a half-man-half lion creature, to bring about stability in the jungles. Even later, Homo floresiensis or three-foot-tall humans evolved out of chimpanzees, which required God to come as a three-foot-tall Homo floresiensis man, the oldest hominid ancestor to human beings. Then God came as humanoids of reducing heights according to the general nutrition level on earth. The height of the first Homo sapiens incarnation of God was three-foot-tall and the next one was over 23 feet tall because humans started farming, in the fertile recently volcanic soil of earth. The next incarnation was 13 feet tall as the fertility of the earth's soil depleted. God will take the form of the main beings of the earth to be relatable by the majority; that is the only way they will accept him as a teacher or guide. This explains why some of the ancient structures (ancient Hindu temples, Cambodian temples, and pyramids) were made with huge stones as bricks; it is not logical that humans of our size will choose bricks of those

sizes. Thenceforth God incarnated as human beings of reducing heights as the fertility of the soil was further depleted (Karunakaran, P. 2024).

### God in the Big Scheme of Things

When the last Big Bang made the AUM sound, truth emerged from the AUM and moved at an incredible speed. This formed the universe of truth. Next came the initial bright flash which moved at the speed of light. This light became the heavens which are in the universe of light. In the heavens, the particles are light photons. Then only came the denser atoms; initially mostly as gas, especially H<sub>2</sub> which later turned into other heavier atoms. The heavier atoms formed from the high pressure and temperature at the center of planets or stars. In a blender, one can observe that heavier particles move to the outside. Similarly in the formation of the earth heavier particles initially moved through the initial gaseous and later liquid earth to the outside. Later the earth gained enough mass and gravity (gravity is proportional to mass) which exceeded the centrifugal force. Thus, there was a "tug of war" between centrifugal force and gravity which was won by gravity. This caused heavier particles to move to the center. Here light atoms like hydrogen and others coalesce to form heavier atoms; eventually forming all the atoms at the bottom of the Periodic Table.

A single human being has a mind which has a memory capacity so humongous that the whole computer storage of earth today will look like a virus by comparison. Most humans only remember what they did in this life as explained previously in "The cycle of birth and death," but within the human mind are stored memories from all the millions of lives they have lived through. In dreams we remember or even relive our past lives. Of course, we also create dreams; for example, we could be bashing up our bosses in our dreams because during the day, they have been bad bosses. Opening our memories, including that of past lives, have been successfully done with hypnosis techniques by experts.

One scientist and medical doctor, Dr Allan Somersall stated that a single human cell is more advanced than all the scientific discoveries and inventions humans have come up with so far. A single strand of DNA can store information of the growing characteristics of every, of the six trillion cells in an adult human being; a human body also has 380 trillion viruses and 60 trillion bacteria. The Hindu scriptures state that the human body renews all cells every seven days. Currently scientists state

that this is true of only the skin and gut cells but not the blood or muscle cells which can last for months.

Results from the Human Genome Project have shown that there are 3.1 billion base pairs within 23 pairs of chromosomes (22 autosomes and the X and the Y sex chromosomes). These DNA codes contain information stored in a very advanced algorithm, compared to the 0,1 binary system that we use in computers today. And all this information is stored in a tiny strand of DNA within an invisible human cell. Basically, we are light years away from achieving the technological levels of the human body.

Of those three billion base pairs, only a tiny amount is unique to us, making us about 99.8 % genetically like the next human. A physicist, Riccardo Sabatini stated that if human genetics is printed it will take up 262,000 pages and only 500 of those pages are unique to any individual. That means only 0.19% (remember it as 0.2%) of a human's gene is different from another human; yet humans have fought horrendous wars, and enslaved others based on this 0.2%. Most contemporary humans think of the brutality of the Western world towards the equatorial and tropical humans, but these brutal fights and enslavement, based on this 0.2%, have been going on for millenniums.

After a human being or any being dies on earth, one may travel to heaven in the universe of light and enjoy the beauty and freedom of the huge space where one is free to wander beyond the restricted imaginations of humans on earth.

If one's merit is even greater, one may live for a long time in the universe of truth, enjoying an even greater freedom of expansion of the mind to an even larger space. A human can become as large as a galaxy enjoying unrestricted freedom in the universe of truth.

Therefore, as humans evolve spiritually, they free their minds of blocks and restrictions till they reach their ultimate potential where there are no restrictions at all and realize they have always been God themselves.

An analogy of how these blocks clamp down on human abilities is a young elephant which is tied with a small rope to a piece of wood hammered into the ground. As it grows older it can easily break the rope but believes it cannot do so and stays near the wood. Similarly, as humans break

their mental bonds, they can acquire immense power.

Humans or all other animals have blood vessels as well as complex systems of nerves but what cannot be seen with the normal human frequency perception range is a very complex system of energy pathways. 101 of them emerge from the heart from a thumb-sized source of life of each human. Each of the 101 splits up to 100 channels and each of those 100 channels splits into 72,000 channels. Out of the 101 that emerges out of the heart region, one goes to the crown of the human head and the sages who focus on spiritual pursuits will have this energy pathway well developed. When they pass away their life force travels up this energy pathway and they do not need to come back to earth to strive again; they have full realization that they are God (Karunakaran, P. 2024).

### **Traveling Through Space**

As mentioned in the second paragraph of this paper, the fact that the Milky Way galaxy moves much faster than the sun and the sun moves much faster than the earth indicates that fast moving objects have higher mass. And Einstein stated that mass will increase as speed increases till it reaches infinity at the speed of light. The object with the highest mass around us, the Milky Way, has a speed of only 2.2 million miles per hour compared to the speed of light which is 670,616,629 miles per hour (670 million miles per hour). Since rockets have a very low mass compared to the earth, the sun or the Milky Way, it can be predicted to fail to reach even the next star, Proxima Centauri, which is 4.24 light years away; meaning once we reach the impossible speed of 670 million miles per hour it will take 4.24 years to reach the next star.

Upon the Big Bang, the atoms moved at a relatively slow speed compared to what emanated initially, which was truth and light. Atoms formed the universe of matter, which is where we are now living. The current size of the universe of matter, with all the stars, is humongous but the universe of light is very much bigger. Similarly, the universe of truth is very much bigger than the universe of light. Beyond the three universes is the pure empty space which is God.

The human mind is the most incredible creation in the entire universe. It is a biological machine, which can, in a dream, travel an incredibly huge distance to the universe of light. In deep thought or meditation, the mind travels to an even further

distance to the universe of truth. Therefore, humans can already travel incredible distances all over the universe with the body we have, and this can be controllable with meditation techniques. Some secret government agencies are already utilizing these techniques to spy on other countries. Therefore, there is no need to build rockets to make observations of the universe. Rockets should be utilized only to help put satellites in space as an aid to mankind here on earth.

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