A short book meant to take honest and determined seekers to the Ultimate Truth. The reality about (our) ‘presence’ is that it is the becoming of the Ultimate Truth itself.
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To my dear reader
who wants to know the Truth

Human intelligence embraces universe just to fit in.
Knowing the Truth is being the Truth.

After all the aim of life is to live satisfactorily. Only knowledge of Truth can give real satisfaction.
The bliss of knowing is the best of all states of mind.

THE BECOMING OF
THE ULTIMATE TRUTH

Introduction
Let us first know that we want to know the Truth just because there is a Truth to know!

Therefore agreeing and with determination we are here on a passage seeking the Ultimate cause, through the most basic, the finest, the quickest and the nearest one(s) - (look at the reality- the Ultimate is both superlative and plural) - which are visualized as making each and the whole.

Through the finest ones? Yes because naturally it helps us to proceed ‘beyond’ to visualize more realities of the universe which become the main characteristics of the Ultimate Truth.

Seeking Truth also can be interpreted as natural compulsions of both the Ultimate and human intelligence. We may very well see a parallel in one’s need for spiritual satisfaction in life with the need to compensate his problems of physical being.

In short by seeking one is placing himself on the world stage to get the light of facts against his needs so that he can evaluate and present himself to suit the realities.

Knowing the Truth is being the Truth. Let us see how and to what extend Right knowledge gives us satisfaction and relief from the problems of life.

Even the study of the very large eg. galaxies-their size, location, energy, mass etc., becomes the study of the small ones. We depend upon information coming from them in the form of various kinds of radiation, which are energy in the form of extremely fine particles.
Mind is all but.....

- Right knowledge
- Union of self with Supreme self
- Spiritual satisfaction

Self awareness holds the mind. Mind as it conceives becomes what it knows. It can not function with out there is anything to know. With out exterior there is no interior.

Therefore the finding ‘mind is reality’ becomes only half truth.

Then how to conclude? What is the whole Truth?

Let us compromise with facts to answer. Mind plus the whole is reality. Nothing alone makes it because mind requires its whereabouts (the whole universe) - we feel it also - to function. In fact mind is ‘this much’ of the presence of the whole.

It may seem everything belongs to universe except self awareness. Knowing and being may appear different. Self is the one to suffer! So to the Supreme self it begins to ask questions.

Serious questions concerning the very purpose of life and existence come up naturally.

With the present level of intelligence especially when going becomes not easy human beings in general tend to think against their own life. The distance between mind and Truth is the deciding factor. Spiritual knowledge backed by experience very well show that the less one keeps distance from the Supreme (in attitude) the more he would be comfortable with his life.

Right knowledge

By Supreme soul or self let us mean the Ultimate principled stand behind the universe. It can also be the Truth about the Ultimate situation or the cause behind it. Compared to this Truth the position (self) of a human being (ignorance) is not only pathetic but also highly dangerous. Normally he needs comfort and the only way for him is to use the best available option-to acquire Right knowledge - the knowledge of the Ultimate Truth.

Union of self with Supreme self

As already mentioned in introduction human intelligence has its own compulsions. It won’t be wrong to visualize that the Supreme Truth also could have compulsions matching its greatness. It is also wonderful to imagine what would happen when these two compulsions meet. Certainly the outcome would be none other than realization of Truth-the union of self with the Supreme self.

The main necessity at the Ultimate level is existence. There is a strong reason behind it which we shall discuss later. Now let us just know that if existence is a reality, it
must show (express) that it is existing. This vision leads us to wonder and ask why not universe be the expression of the Ultimate reality? Yes it must be. But what is the Ultimate reality?

We have to go - till we are satisfied and all related things are realized once and for all.

**Spiritual satisfaction**

*Mind-spirit - seeking - spiritual satisfaction*

There is no doubt that human intelligence (presence) needs appropriate spiritual satisfaction.

Trying to explain let us say that spirituality is nothing but the natural way of self positioning of soul (spirit) to make life meaningful (serious, asserting) and satisfactory. In this process the key to success is again Self (Right) knowledge.

Here (self positioning) the relation between self and Supreme self is being defined and settled. Serious questions such as meaning (purpose) of birth, death and life are raised to get satisfactory answers. Honesty and determination in seeking, and clarity of thought are introduced and set by the seeker himself to get best results. And above all when logically tested principles and choiceless proposals from the Ultimate itself show light on the way the passage becomes wonderfully right, natural and extremely fruitful.

Therefore let us seek Right knowledge in the right way and satisfy ourselves. Life is individual (one’s own) but that doesn’t mean it is casual, cheap or simple. It is a one time chance, a unique gift by a divine necessity all made to oneself and to feel ‘I am’. Don’t we feel such a presence as ours!

Being and knowing is great because that is what makes oneself. Though being is limited to what we are physically, knowing has no such limits. The limit of knowing is the Ultimate Truth.

If mind is to know let it know the Truth, and if it is reality let it realize the Truth.
Misery and thoughts on salvation

If miseries are thorns philosophy is the flower.

Man thinks mostly to find a way out of his problems. Some times he would even think it was better not to have born. So a re-thinking becomes necessary - on the very (purpose) meaning of life.

Life (being) is great only in the sense that it is what makes us or it is what we are.

The main problem with life is that it is only a conditional reality. It is a weak package of motions subject to spacetime dimensions and natural events.

Another reality about life is that one is a product of himself meaning he is the product of the union of his own evolutionary histories that carried both his limitations and possibilities. There always been a possibility to improve but not to exchange all together with one another. Mind however (as it becomes what it knows) gets opportunity to go right from wrong, from belief to reasoning and develop right attitudes.

Nature is complex. Universe is limitless. We are a product of these features and still wonder what to become or know to be good amidst all these problems and confusion. In fact even to decide one needs a fairly good experience of many years of life. Why life has become so?

Poverty, disease, fear, inferiority complex, lethargy, physical limitations and death are the main odds against life. There could be some solutions to problems but ignorance makes one a silent witness to his own miseries.

In short life is miserable. Death is a reality. Life from all angles finally would look meaningless. But as the ‘presence’ is a reality one can not let it go simply to suffer.

It is here intelligence and its compulsions come to rescue one. More over Truth (realities) also has its own necessities. Human make up probably has more limitations than any other living or non living in the world. Therefore to compensate he is provided with intelligence.

Salvation and Right knowledge

Spiritually (as per those who introduced the idea) salvation means rescue of soul from rebirth. All most all popular schools of thought in the orient find salvation the sole aim of life.

According to this line of thinking it is not the living person but the soul which needs salvation. This idea is centered around the belief that the soul would not have relief from rebirth unless one does good deeds in his life
time. This philosophy further points to the fact that only Right knowledge (the knowledge of soul and Supreme Soul that leads to realization) can help a person to salvage his life from the world of miseries.

We accept the fact that life is a struggle. As we said earlier no body could have asked for a birth as we have now. It is a relief that we don’t find any reason to believe in any rebirth of the presence.

As one is born, life at the moment is a reality. It definitely needs salvation not from rebirth but from the miseries of this life itself.

To be honest death is real salvation. But we don’t consider it because it would certainly happen even other wise eventually. More over engaged with the present situation we feel we have plenty to know, to be and to do before leaving the scene.

In short what is being made clear is that this presence is more important to us than anything else and a relief from problems while the person still alive is the main thing to look for.

So let us start the rescuing job. Not any time later, not even today but now this moment it self.

Scope of Right knowledge

If ignorance is a miserable dark bottomless ocean, knowledge is the float with a light on it. At the end there is the dawn of Right knowledge - the knowledge of the Ultimate Truth. Though we don’t discuss more on the Ultimate Truth now let us be sure that it will provide the seeker with the right state of mind to evaluate situations reasonably and to choose favourable positions to be in good spirits. This can be interpreted as his new attitude that, it is for him to decide whether the problems he faces are really problems (for him) or not.

This attitude is personal and at the same time open. Here it projects both the person as well as the problems in a new perspective. One who is open or selfless would only philosophize things rather than letting things down him. Definitely such a person has brought a change in him as well as in the world around him.

At this juncture let us define Right knowledge as that which is essential to know to raise the mind to the best possible order. Of course let us repeat: it is the knowledge of the Ultimate Truth and nothing less. Similarly the resultant right attitude of the person is the attitude of the Ultimate Truth it self.

On the way

On the way to Truth these are all what we expect and feel sure to realize. We also feel the compulsion of Truth with in, to go forward confidently. Wonderful concepts backed by reasons and logic beckon us to show the hard realities of universe. We feel we are being transformed little by every step. Infact the passage has only just started. Mean while let us pause and check ourselves, whether we
are qualified enough to be here in a passage that no body has ever known to have traversed to its (logical) satisfactory end.

Let us ask once more, why to search? The reason is that initially every one is born with just one reality that is himself and slowly as part of life he finds the need to know the realities of the world. Being is fulfilled by just living. But what about the need to know? Only knowledge can bring satisfaction in life and only the knowledge of the Ultimate can give real satisfaction.

The universe is limitless. By knowing it we are not bringing the whole universe into our mind. We are only conceiving the idea that it is infinite. But it is certain that these concepts have the power to widen the narrow corridors of our mind. Thus from one reality to another the Truth is waiting for us to show more of them.

Let us go to Truth, confidently. At the moment we don’t know what it is. It could be anything; let us accept it, provided it agrees with all the concepts we have grown honestly over realities.

Let the light of Truth brighten our concepts. They are about the Ultimate reality itself.

Getting concepts brightened marks the way to realization.

We shall discuss more on realization (enlightenment) in coming chapters. Now let us discuss the truths concerning concepts and seeking.

When one seeks Truth, knowing and realizing happen with in his mind. That means the seeker sets a canvas with in and tries to create images (concepts) of Truth on it. The seeker must be an artist and at the same time conscious of the validity of the Truth he finds.

How to evaluate the Truth? The principles involved and the result of seeking provide the answer.

Let us now attend to the many concepts of universe which we ‘get’ on our way. They appear as wonders and give us the bliss of knowing. Where do they come from? - we ask first. Were they with us from the very beginning or we got them on the way by the influence of universal realities?
Once more we remember that Truth has compulsions. But honestly before accepting we want to test them (concepts) against logic and get passed. We do that because satisfaction is the prime aim of seeking.

Coming to concepts let us first see that realities are absolute, and they entertain no more questions. They can’t be other wise and they fulfil more than what logic asks for. But we don’t want to settle with them like that. We ask again, will the Truth provide us the real picture of universe beyond these realities? Or is that there is not a real picture at all to see? A fair concept doesn’t allow the existence of such a final or real picture. We don’t have to worry because even the universe in all probability would be incapable of seeing itself as having a final picture at all. There is no watch tower outside to see it either. Nothing can exist without being a part of the whole. This is how we conceive the Truth and let us have more of such realities on the way.

Being little artistic let us move on to the next and wonder: aren’t we becoming less than what we are and the universe more than what it is!

Let us move on....

Nature would be looking different to different types of perceptions. All appearances are related to the differences between subjects and objects. Seeing, understanding and philosophying also have their complexities. And above all there are many known and unknown forces working in between points in nature both individually and collectively. So where is the chance for a perfect picture as well as a perfect view?

To us things in nature appear divided into two worlds, one with things smaller than us and the other with things larger than us. The background may be the same, but both sides of the physical world appear opposite and infinite to us. Are we really standing in between two types of infinities? We don’t know. We may not. No, we are sure: we are but with respect to what we are!

And further....

Distance is (only) the effort required to cover it. No distance means no effort done.

Effort is energy (being used) and no effort means no energy used. On such spots energy may be existing in its full force but only virtually. Thereby the relation between energy and spacetime appears to us quite interesting.

To count or measure is not wrong in the physical world, but things can be valued only by comparison. Quanta, counts and individualities rule the world.

Now coming to the background spacetime with respect to motions let us find the whole picture as ‘nothing’ being compelled to become a world of ‘something’. This also tells the story of creation. We shall discuss creation in
There is no end to concepts. Let us have few more of them.

The universe with or without material is really infinite. If it is nothing it is infinitely nothing and if it is physical still it is infinite. We try to conceive this phenomenon as endless extensions of physical dimensions with their roots in the world of Nothing.

Keeping in view of these Truths and many more we can now very well say that any point in universe could be its centre as well as a point in its boundary. It also means that the universe is just ‘all’ with out a particular centre and a boundary. Such a universe again can have no inside or outside, not to mention about directions like top, bottom or sides.

Physicists say that our universe is in an expanding course presently. This may be true and the only logical explanation to this phenomenon is that it could be just a local disturbance against a greater back ground that cannot register any change at all. The fact is that real universe need no expansion. All of space belongs to it. A universe plus one or minus one is impossible to imagine. Singularities are only just the problems of theories. Mathematics the language of physics has nothing to do with infinities.

Now what is the reality? What is the Truth? We need a satisfactory explanation after all. Is it just a self expressing idea or principle or is it something great a phenomenon unexplainable?

Is physical universe the appearance (expression) of this phenomenon? Sometimes admitting Truth as unexplainable also becomes a sufficient and satisfactory explanation!

Still let us go to the extend possible.

Did we say principle and expression?

Does the universe have two faces? Seems it has. One invisible which we can only visualize as ideal or spiritual and the other one, the physical universe which we feel we are part of and real; a wonderful phenomenon ever new, extremely fine in its base, and materially forming with various levels of motions and evolutions.

Let us proceed and visualize further.

At the Ultimate level the one (world, face) which lies beyond possible depths necessitates ‘principle’ to act and the action(s) create the other one to emerge in all dimensions as the physical world. The one that necessitates is the world of Nothing as it is not there physically and the other one which appears real to us is the world of Something. Both these worlds though opposite in character work in perfect harmony to make existence (universe) a reality.

The universe in its entirety looks amazingly right (natural, true) when viewed both physically and spiritually.
This vision gives us hope and confidence to go into the depths of spiritual world. Our aim is to know the Ultimate reason and the nature of self expression. Does such a great expression need any particular reason? Everything has a reason in universe except for universal realities. It is a truth. Self means self. The more we come to think of it the reality gets harder and harder.

Therefore it may seem futile to find a reason at the Ultimate level. But still let us ask: where the Supreme Self (universe, the whole) is emerging from? May be that it is coming out of some Truth unknown to us at the moment.

Here as part of our quest we are naturally shifting our attention from the product to its source. We don’t know what the source is. Let us think and hope to find the source and check whether it makes the Ultimate Truth.

Let us find that living individuals suffer (life) because they have mind to feel. But what about nonliving things? Do they also suffer? Most probably yes. Even points in space should be having their respective awareness. Every formation small or big must be feeling, only that we don’t have the ‘eyes’ to see them. The worlds of insistence and resistance are too complex that what we understand is only very negligible or nil.

 Universe is full of various kinds of individualities. Particles, atoms, elementary formations, compounds, planets, stars, galaxies - the list is endless. We know generally what they are in terms of existence, but here what we like is to ask a simple question: Why individualities? Why things are separate in nature? and the universe still just one great whole?

Physical science has the Quantum Theory explaining energy and the micro world. But the question remains why energy is in separate packs called quanta?
Let us find the answer! The idea or vision of Truth points to a reality that existence is possible only in measures! This measuring (with no aim because it is a reality) is a spontaneous action and the reason for this reality must come from the Ultimate Truth.

Complexities begin here. Let us choose one question to go forward. Does this description of energy anything to do with creation?

Yes it has. We shall know more of it when we try to get the answer for the all important and final question both philosophically and spiritually that the human world has ever asked.

The question needs some introduction. To begin with let us find that this is not a problem for science to answer. The answer must come from the most honest and selfless seeker of Truth in the form of a clean nonrefutable proposal.

WHY DOES THE UNIVERSE EXIST AT ALL?

......is the all important question. It is the last ‘why’ of all whys and remain to be answered satisfactorily yet. Let us assure ourselves that we are not the first ones to ask this question. The world has it already. Some body some where when deep in the thought would have asked it for the first time for the entire human world.

The question would appear very simple when lightly taken. But it is not really so, when taken seriously. Let us repeat this cardinal of all questions. No intelligence from any part of the universe could come up with a more meaningful question.

Why does the universe exist at all?

The hard thinker who answers this question could be anybody. A layman, a philosopher or a scientist turned thinker. Here the purpose of universe including one’s own life is being questioned. After all it comes out of a deep thinking frustrated mind.

‘At all’ means with all these complexities, rules, principles, forces, infinite kinds of individualities, hopes, desperations and much more...

Death is a reality. Then what is the meaning of birth - to suffer and die?

Every thing is natural - we always have the ready made answer. But why? Why does such a world (need to) exist at all?

We shall sure to find a satisfactory answer to the above question. The question cannot go answerless. Checking our progress let us say that if one can ask such a question, he is sure to be very near the answer also. Just few steps more he in on the stage..!

Does science have an answer to this problem? It will be interesting if it has. ‘A birds’ eye view shows there is one, a quite promising answer to the above question but still falls short of the Ultimate Truth.
The proposal of G.I. Naan

G.I. Naan the eminent physicist and former member of Estonian Academy of sciences, who has introduced many hypotheses explaining the universe has the most remarkable and highly imaginative answer to the above question - why does the universe exist at all? as:

‘....the Universe exists because nothing is unstable and polarizes into something and antisomething?’

This answer of course provides some relief to us, but to know the answer fully we must first know what is ‘Nothing’ and why it is unstable etc. Any theory or proposal regarding the Ultimate should be final, and should not leave room for further questions. Thus we find the above answer short of showing enough light on the Ultimate Truth.

The brilliant English physicist professor Stephen Hawking considers the above all important question not just for scientists alone to answer but for every body. It seems he honestly wants to know the answer when he says, “If I knew that then I would know everything important.” He also admits that the usual scientific approach of coming up with mathematical models cannot answer this question. In his book ‘A brief history of time’ Hawking visualizes the answer to be the mind of God. But where is the answer. No body has yet come with any satisfactory proposal. Let alone a final theory.

Physicists, we find, want to be scientists first and they prefer to be in the world of theories and experiments than coming up with imaginative proposals. Now having made the Ultimate Truth our destination it becomes our duty to check whether our ‘answer’ to the above problem would take us dot to the Truth. After all the answer has to be final leaving no room for further questioning. That is the testimony of Truth.

To get such an answer it seems we have to go beyond the physical world to the world of realities. Some realities are close to us, some far, but all of them are different faces of an Ultimate Idea or Principle. The reason for polarization of Nothing marks the main character of the ominously close answer.

Let us know now what is Nothing and proceed to the Ultimate Truth through the world of Nothing.
The world of Nothing

It is true that we have been visualizing a door at the end that is shut for ever. It is also important to remember what we used to say looking at the wonders of the physical world:

‘No. This is not the Ultimate Truth.’

In fact we have been telling ‘no’ to every thing on the way, and by telling ‘no’ throughout we have now reached a world of big ‘No’. The world of Nothing.

Does such a world exist really? Yes it is. We have it around us as a bottomless ocean of emptiness with nothing to see or feel - a total dark dead state. Is that the Ultimate? We ask with nothing more to think.

Is the Ultimate just nothing?
Is the Ultimate seat vacant?

There is total silence. We are confused because we expected something else ‘too great’ to see at the end. Nevertheless we have no reluctance to accept realities. So shall we accept this total emptiness as the Ultimate Truth and retreat?

We wait confused and after a while we become ready to know what emptiness is.

Absolute Nothing... that is the first thought. On a second thought we find it has no need to become anything - a thoroughly independent situation free from time, space and activity.

Again it is limitless, present every where and still nothing.

Is it the most idealistic situation of all - a state of existence that is above all the botherations of the physical world?

‘No’ cautions a compulsion. ‘You are mistaken’.

‘You said a state of existence! Something that exists cannot become Absolute Nothing?’

We agree. We were wrong. But ideally there must be such a situation. The claim of Nothing still exists. It is a universal problem.

The problem is to be solved.

Truth must prevail. The claim and counter claim have to be settled.

And that happens. Advancing towards the Truth we see that happening.

Let us watch closely.
On one hand Nothing (ideal) refuses to accept existence (reality).

On the other hand logic (reality) demands its existence as Something. Nothing has no such considerations. It is totally indifferent and ideally nothing.

Now what is the solution. What is the right position which needs to be established.

Who will decide? How to do it.

Let us know that situations have own compulsions more so with Ultimate Situation. Here it is the compulsion of ‘Supreme Principle’ or Supreme Conscience which intervenes to make the situation right.

So first Nothing is made Something. As that doesn’t solve the problem it is made Nothing again. As the problem still exists, and before they (Something and Nothing) understand what is going on really, the shifting is repeated continuously in tremendous speed.

This sort of actions and their continuity is universal, that means it has been so in the past, it is going on just now, and it will be so for ever. Again the continuous shifting of stand between the above two points can be described as oscillations, each with a fine zero point in the middle and two unstable points one negative and the other positive representing the worlds of Something and Nothing on either side.

Thus the existence of Nothing becomes partially active and uncertain. In reality it becomes Something. Otherwise it is ideal. In total it is both, and at the same time functionally separate.

Something (the physical world) comes out of Nothing means Ultimately the whole is by it self. The Ultimate Conscience is the demand of the situation- again a self phenomenon. Therefore it won’t be wrong to say that the universe is the self expression of the Ultimate Truth (situation).

Now what is the Ultimate Truth? Can we describe it in few words? Not yet! We can only wonder that Nothing is already there! It needn’t be created by any body at all.

Coming to the world of Something let us now note what really is the picture out there. Creation of Something (in principle) is the beginning of (a present phenomenon always) the physical world. The whole of it comes out of the necessity to exist. As the physical world is being created, naturally it will have all the complexities of further necessities and possibilities.

The whole process needs both scientific as well as imaginative description to have a fair picture in mind. The beginning of all actions (the execution of necessity) marks the border between the positive (Physical) world and the
negative (Nothing) world. Science is already somewhere here on the physical side, slowly approaching the border.

We shall have a brief look later (on the way) to check where science stands today in respect of Truth. Meanwhile let us try to know briefly what is creation. Let us watch how principles become facts and facts (science) carry principles down to all the levels of motions and evolutions.

Creation

To be honest there are no words to describe creation in its entirety. Still we attempt, because we feel the more we know about it the more we are close to the Ultimate Truth.

To begin let us be with the Ultimate Necessity ‘to be’ in between Nothing and Something. Coming to each action (in infinite numbers) let us note how we described it as resembling a sort of oscillation between Nothing and Something creating a pair of active points on each side.

The points thus created are so pure and fine that they take no time to happen and no space to occupy. In science they are called virtual particles each being a pack (quantum) of energy or action.

Let us describe energy as (being) actions - the physicalization of Ultimate Necessity.

Necessity creates?! In the first level if it is the necessity to balance between Nothing and Something in the second level it is the necessity to continue such balancing
act for ever to establish Truth. The physical world with all its characteristics begins to form from the second and third level continuities marking actions and interactions between levels of actions involving spacetime.

The relation between energy and spacetime can be described philosophically the following way:

The quickest action (infinitely fast and energetic) takes or uses no spacetime.

Similarly the slowest action (infinitely slow taking all the time and space - no involvement this) is no action at all and therefore takes or uses no energy. Our world is somewhere between these two extreme points.

The spacetime continuum can be considered as possibilities lying dissolved or about to wake up in the world of Nothing. The world of Nothing is already there. It is (spacetime) being released as and when required by particular motions (energy levels) of the physical world. It means that if there is no action happening there wouldn't be any involvement of spacetime. It is amazing to find that all these things - actions (energy) and spacetime - come from no where called Nothing.

How true is the smallest

The finest point (s) in nature as it is the manifestation of the Ultimate Necessity is unique in many ways. It fulfils the necessity to be, to be true (it is something) but doesn't become anything particular not to be untrue and begin to express the wonderful phenomenon called nature. From the human level both physically and logically, we can only visualize them to be there at the point of creation.

New and new particles are being discovered on a regular basis today. Each new particle would appear having amazing features. The importance of these particles are assessed on the basis of their role in material formation. Some particles are only in theories waiting to be substantiated experimentally.

The basics of physical world are so amazingly natural that we find no extra meaning in them. At the same time we find great meaning in imagining what would have happened if things were different and less accurate in the first level of creation. If the finest point of action had been divisible, in terms of spacetime, the whole process of creation wouldn't be there at all and the universe would have remained a nonprincipled chaos and with out us to know it. But at the same time it is the erosion of accuracy from the secondary level (continuity) onwards that results in the formation of the physical world - as we see around.

The accuracy ie true implementation of necessity is the Ultimate interest and the natural inaccuracy ie indifference to results of action is the impartiality (truth) of the Ultimate conscience.
The world of science

Truths from science do not present a comprehensive picture. But still we have to notice them and select a path to reach the boundaries of the physical world.

True spirituality is not against science. In fact it is science which guides us to think and understand things rather than believing.

In other words a seeker of Truth is a consumer of science also.

Human approach had been sufficiently scientific from the very beginning of history. Naturally it was necessary for his survival. Even the crude tools he used in those early periods were scientifically made to the standard possible then.

As ages passed man became more and more fascinated by discoveries and inventions. Science showed the way and man became the master on earth. There was a time when discoverers and philosophers were one and the same. That was the golden period of human history. Man and science walked ahead hand in hand happily then.

As centuries passed the situation is quite different now. Science has gone far ahead of man, specialization opened new tunnels of knowledge, and visualizable concepts gave way to nonvisualizable ones.

We don't know where we are now. The whole situation is confusing. Sometimes we feel we are living for science.

After all it is now quite clear that science is after scientific (physical) truths and not after the Ultimate Truth.

Let us not blame science for that. The meaning of life, universe etc. are in fact not a scientific problem. The Ultimate Truth is for a thinker to find out. As said earlier he could be a physicist turned philosopher or just a lay man from the street who has the habit of going deep.

The physical and material world.

The physical world can be defined as the positive face of the universe. A negative world is also here along with it as the source of all, but hidden characteristically. Both are same except that the physical world is the expression of the nonphysical (negative) one.

To us the appearance or sensual face of the physical world becomes the material world. It is that which matters to us directly. It is a sort of harmony and experience between us and the states of energy we are dealing with.

Everything including us is essentially energy. The level of energy in each, and the situation it is in makes all the difference.
Empty space is not empty

Ideally there is only nothing. Really it is all. Most of space looks empty because we don’t have the eyes to see its depths.

For a physicist empty space is not empty and it is rich with pairs of virtual particles teeming everywhere. They are assumed to be created from nowhere and the reason believed to be fluctuations in the value of energy fields existing in empty space. These fluctuations (polarization of Nothing) must be the same what we said earlier as the continuous shifting of stand (of Supreme Principle) between Something and Nothing. Let us visualize this activity as the finest of all that happen in the physical world.

In oscillations particle pairs are created and disappear. Sometimes it is also said that fields are fields of particles. There are fields without particles too.

Quantum mechanics deals with all particles as quanta of their respective fields. Interestingly one of each pair of particles would be a particle and the other an antiparticle. Characteristically these pairs appear, move apart, and then come together and annihilate each other all in no time. Pairs of photons and gravitons, pairs of electrons and positrons - are good examples. These particle pairs cannot be detected directly but their presence is felt by their effect on elementary particles. It is assumed that the vast clouds of virtual particles present in space are mainly responsible for all the events taking place in the world.

The secondary kinds of particles present in space are called real particles. If virtual particles represent vast clouds of open points the real ones represent closed points. By necessity some right combination of both real and virtual particles (by numbers as well as kinds) becomes atoms representing the world of elements. Therefore it is found that the properties of virtual particles mainly determine the process of materialization. One such vast background of clouds of open points is made of Higgs bosons. They are found to be playing a great role in the formation of material world.

Energy as quanta

Why energy in quanta? To this question the only answer is- no other way! Why so many kinds of fields? The answer is - there are plenty of possibilities to become. No other reason can be seen.

The material structure of virtual particles is beyond science. It is like probing the reason for a reality. These particles are superlative in all respects. The quickest, the smallest, the most accurate and careful - means they are by themselves - physically and necessarily by principle.

Antiworld

Antiparticle and antimatter

Physicists today believe in the existence of an antiworld along with the positive physical world which we
reckon we are part of. In all probabilities these two worlds exist together complementing and at the same time opposing each other in all levels.

Let us note what prof. G.I. Naan has said on this subject:

"A crude model of vacuum can be conceived of as an infinitely great supply of energy of one sign compensated by as large as a supply of energy of the other sign." It is now well substantiated that in a pair of virtual particles say an electron and a positron one of them turns out to be consisting of matter and the other antimatter!

Similar proposals on the polarization of vacuum (Nothing) manage physicists to consider the universe free from singularities. But mathematics and formulae keep physicists trapped within the framework of spacetime. That is why some physicists like to begin to count of the existence of our Meta galaxy not from zero but rather from minus infinity!

Further a step advanced from the level of polarization, it is assumed that the properties of ordinary particles (closed points) are not provided by their own internal nature, but as a result of their interaction with pairs of virtual particles (open points) with opposite signs. Or considering the other way they (real particles) could be the very state of interaction itself marking the beginning of creation of matter involving space time in required dimensions.

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**Higgs bosons** *(mass imparting virtual particles)*

Higgs bosons are found to be existing in both 'gaseous' as well as 'liquid' states, of which the latter is found to be providing a perfect condition to 'cook' matter by interacting with closed points.

According to certain proposals real particles acquire their mass from their association with above kind of particles which are found to be capable of imparting mass to other particles. The resultant particles are called Higgs particles with mass. Scientists are trying to create such particles artificially in laboratories to practically study the actual process of materialization.

**The spin**

We wonder how natural and right is creation! Fields must oscillate! Oscillations must continue. Continuity creates spins of varies types marking differences between them.

Therefore the differences between particles are marked mainly by the mode and intensity of their spin. The spin of bosons is found to be equal to zero or to an integer, whereas that of fermions (main constituents of atoms) is half integer and equal to 1/2, 3/2 etc.

Differences find ways to associate. The whole process becomes creation and the result is what we see around.

Atoms contain not only fermions but also clouds of various types of virtual particles. It can be said that atoms exist only because of the omnipresence of virtual particles.
Let us cite the example of protons and electrons of atoms, they exchange virtual particles (photons) to function.

Dimensions

Another reality about existence (liveliness of something) is that it cannot be without being multidimensional. This can be explained as the involvement of spacetime and many other known and unknown factors as necessities to continue not only in interactions between open and closed points but also in the entire process of materialization.

We in real life experience only four dimensions. But in theories there are at least thirteen of them, keeping scope to find more in future.

Geometry – the way of possibilities

The physical world is so wonderful that scientists often want to interpret it as interrelated forms of geometry of empty space. It is assumed that the forces of nature and the dimensions of existence are all closely related to the geometry of emptiness.

Geometry and the smallest

Today the world has matured enough to agree that the depth of microscopic world does not allow conventional experimental investigations.

It is a fact that only thought is capable of penetrating beyond the size limit of $10^{-15}$ cm. Therefore what we have beyond is only bold guess.

One such guess is from the American physicist John Archibald Wheeler. He finds that all of space is basically empty and there is nothing in the world to say true except absolute vacuum. He also says that the physical content of the world is determined by the geometric necessities of empty space.

There is such a space in Einstein's General Theory of Relativity also. It will be interesting to note how Wheeler interprets Einstein's space. Let us quote him. "Einstein, above his work and writings, held a long term vision: There is nothing in the world except curved empty space. Geometry bent one way here described gravitation. Rippled another way somewhere else it manifests all the quantities of an electromagnetic wave. Excited at still another place the magic material that is space shows itself as a particle... Everything that is, is constructed out of geometry."

Of course we understand that this vibrant geometry itself is the physical world we are talking about. We also don't mind that the description of the physical world here is very much imaginative. But equally we wish, it would have been better if experts in the field came up with imaginative proposals on the Ultimate Truth also.

The lowest scale

According to Wheeler the lowest scale of measurement becomes a quantity of the order of $10^{-33}$ cm. It is assumed that some sort of cells of this size fills the whole. Each of these cells are described as the minimum possible
portion of energy or quantum of action (this matches well with Max Planck's concept of fundamental length).

The superfine space with the distance of $10^{-33}$ cm is called Wheeler's super space. According to him space at such a depth is foam-like something with bubbles of energy appear and disappear symbolizing fluctuations in the geometry of space.

The above description (except the size $10^{-33}$ cm) is only a repetition of the story of virtual particles. Considering the above proposed size let us find that we cannot accept Wheeler's super space as the smallest one in principle. Still smaller a size measuring ‘zero’ or very close to it must be the smallest. Certainly it can't be $10^{-33}$ cm because to a size still smaller, this would appear larger. Reality is independent of our ability to measure and compare.

**Planckeons**

The proposal of Soviet physicist K.P. Stanyukovich on vacuum at ultra-deep level also presents a distance of $10^{-33}$ cm. He calls such sizes of space as special particles with a worked out mass of $10^{-5}$ gm each and density $10^{95}$ g/cm$^3$. He named them planckeons in honour of Max Planck.

Earlier we had visualized that the energy of the smallest (basic, fine) action would be the highest possible. The energy estimated in the case of planckeons also comes to a huge $10^{80}$ gm/cm$^3$, compared to just $10^{14}$ gm/cm$^3$ of actually existing atomic nuclei. The immense energy noted in the case of planckeons is said to be in a bound state and is assumed to be in use almost fully, between neighbouring fluctuations (particles) of the same kind. When part of this energy by some reasons (continuity, mutual interaction, involvement of spacetime) gets transferred to real particles, then that becomes in all probability the reason for and the act of materialization.

**Tachyons**

The hypothesis concerning tachyons (sort of special particles) seems to take physical science even to the antiworld which it has been proposing quite for some time. These particles are suspected to be always travelling faster than light. Unlike other particles tachyons acquire energy in deceleration and lose it in acceleration. Speed of light for them is the lowest limit. Equations, it is described show that tachyons have imaginary mass probably a negative one.

What do these kinds of particles represent? They represent the possibility of a negative world where things are quite opposite and we may require special approach and suitable philosophy to conceive facts. Here deceleration also may mean back to original position a route unknown to us presently or the whole thing could be a mistaken identity of yet another physical expression.

**Neutrinos** (subatomic particle with neutral electric charge)

All particles are mysterious in one way or the other, more so are neutrinos. We discuss them here to know whether their special features have anything to do with our
search for Truth.

The highly penetrating capacity of these particles have already made them an important tool in investigating the secrets of the microscopic world. The rest mass of neutrinos and similar particles, (some of them are yet to be discovered) are being considered for the hidden mass of the meta galaxy.

Neutrinos are assumed to be coming from some unknown cosmic sources situated far deep in outer space. At the same time they are also suspected to be everywhere, hidden from our view, and as the main content of coronae of galaxies. Physicists are expecting neutrinos to provide a key to the riddles of the structure of matter at the most profound levels of the microscopic world and a small step if possible towards constructing a unified theory to explain all that is happening in the world.

Of all the elementary particles known today, only the photon remains without mass. Photon cannot be at rest, it exists only in motion.

The mass of neutrino (Sum of 3 types) is estimated (a negligible quantity very close to zero) to be $0.320 \pm 0.081$ eV/c$^2$. Its near light speed with negligible mass gives it high penetrating capacity that it can pass through our earth easily. It rarely reacts with matter. Recently neutrinos are found to be capable of mid-flight metamorphosis.

From being to evolution in brief

A fair visualization of the structure of physical world beginning from the most basic universal action to the level of formations with intelligence, a picture including polarization of Nothing as well as the present level of expansion of meta galaxy is certain to give us enough light and motivation to proceed confidently further towards Truth. In the light of things we already discussed so far let us propose the following model - to explain what is happening.

The oscillations between Something and Nothing can be interpreted as basic actions. Actions and quanta of energy are all the same. Actions necessitates further forms of actions like spins with uncertain movement and the involvement of possibilities like spacetime. This necessitates dimensional existence. Continuities of various types of actions end up in various sorts of interactions. And these interactions necessitate balancing and the result is real particles. Energy level comes down in each level of creation in proportion to the quantity of spacetime involved.

The tussle between Something and Nothing gets passed to each level and the necessity to defend further loss of energy (due to the expansion of meta galaxy) results in the formation of atoms, where positive and negative forces are engaged in conditional relationships to exist and proceed further.

Existence is all. We human beings are at the tip of existence carrying elements and compounds in the form of tissues of our body engaged in a near harmonic relationship for a common end - again existence. Our make up by natural course contains the most fragile bonds existing in nature, and we are provided with intelligence (generally) to over-
come the limitations of this fragility to some extend. Along with this let us also define intelligence as the ability to use informations for one's own comfort, by assessing self and the situation he is in. Science and philosophy are two major extensions of intelligence. The last finding in philosophy could be as the old saying, 'everything is nothing' and the last in science as per the present trend is to find everything under a theory - The Theory of Everything.

**The Theory Of Everything viewed philosophically**

With so much specialized theories around explaining so much (partial) truths about a complex subject - the physical world - it is only natural if physicists in general desire to have a single theory to explain everything.

This theory naturally expects to answer the histories, the level of present potentials, and all the future possibilities of each and everything. The hidden agenda is again to tame nature.

Contrary to trend let us say that just a basic level of common sense is enough to find that the desire to have such a theory is against the principles of nature. Nature is complex and its ends lie merged in infinities - a situation which has nothing to do with physical theories. And above all this desired theory does not have Ultimate Truth as its aim. Considering the above facts it won't be wrong to suspect that there always would be a hidden factor remaining to be solved in the results of experiments, in the limitations of tools and in the truths of our own perception.

The intention of nature is not to be simple, but to evolve through all possibilities. Amidst this who can determine what humanity wants to know Ultimately and have for a good future.

One thing is certain that discovering truths has become the character of human intelligence. There is good prospect to it because the world is full of truths and the number of truths to be discovered will be always more than what have discovered. There is nothing wrong in wishing or trying but bypassing all to reach a Theory Of Everything seems impossible. We also visualize such a theory is nonexistent. Probably one may know and realize the Truth of all but certainly not all that is happening out of that Truth.
The Ultimate Truth

The universe is the necessity of possibilities as well as the possibilities of necessity.

Generally naming God is the easy answer to all philosophical problems. Compulsions of inheritance and the need to escape from the burden of reasoning drive people towards blind belief.

As realities are realities, let us be firm not to credit them in the accounts opened by few gullible who see a fine tuning in everything by a divine hand. In fact there is no fine tuning in the physical world, except that certain things exist for a long period compared to our times.

Still let us retain the word God and wisely comment that God is not to be believed blindly but to be understood to the best of reasons. Understanding is the key to open the heart of Truth.

From the level of Ultimate reason and the most basic point of creation, universe is the flow of necessity through infinitely open channels of possibilities.

What is the necessity?
One may ask and that again would lead to asking: why?
Why does the universe....?  
So far no body has come up with a satisfactory answer. Even if anybody said it at any occasion in the past, he never would have said it knowing that it was the Truth.

Let us note with amazement that philosophers who lived far back in 5th century BC had visualized that the order of the world comes out of a Mighty Necessity. Democritus a prominent Greek philosopher of that time was the first one to introduce this Truth. There were opposite views too. Epicurus another philosopher, instead of necessity found the play of chances everywhere. But the argument in favour of cause (necessity) gained prominence when Marcus Tullios Cicero came up vigorously in favour of it.

Since then these views have been the hot subject of discussion among philosophers especially in the west. Unfortunately science took no interest in these arguments as it has been after visualizable truths and improving techniques.

Now after twenty five centuries (?) since man wanted to know the Truth, let us join the few scientists turned philosophers who took a safe course in between accepting both arguments as equally true. Frankly both necessity and chance are equally contributing to make existence a reality.
Only that necessity derives out of a great principle and chances thrives on possibilities which are already in nature (Nothing). Exacting further we wonder isn't universe the necessity of possibilities (chances) on one hand and the possibilities available for necessity on the other, apart from they being independent in their own way!

Now to what Truth this situation leading to? Is Truth the combination of both necessity and possibility? Or is it the line between them?, or something working behind all these things?

On the Divine stage

We have been here near the Truth quite for some time. Now the time has come for us to know the Ultimate Truth. First let us answer the question: why does the universe exist at all?

At all-means with all these complexities, realities etc... Coming to the problem, why?, let us follow the reality. The possibilities (the world of Nothing with spacetime etc...) are already there.

Possibilities must show that they are existing!

That is the Truth. There is no other way. That is the right thing too!

Existence has no choice. Just be... be true... be straight... be clear.....be right... The universe in not independent that way but the choicelessness is absolute, final and thus the hardest of all realities.

What else can make The Ultimate Truth?!

Whether one realizes it or not, the choicelessness remains above all.

It is ‘there’... no it is being ‘there’.

It is everything. Now it is our thought too. The reality behind being is amazing. It is so hard that we have no more questions to ask. Let us try. Why this choicelessness?

Because there is no choice!..... no other way!

The answer is the same every time!

The universe must be 'there' this way or any other way. Existence is essential... the universe has no choice but to become....to exist. It must... and therefore it is...

We have already seen how the universe is existing. Now we saw why it is...

Let us also try to know what the whole thing is? It is a phenomenon which is already there, becoming it self as per the demand of a unique situation. The becoming is the expression-the physical world.

In fact no words are sufficient to explain the greatness of the Ultimate Reality.

Just to know the Truth is not enough. Let us realize it, accept it and be that.
Enlightenment and after

Knowing the reality - more precisely being the reality itself - is realization. Being in the light of Truth - more precisely being the light itself - is enlightenment.

Is the reality that the seeker finds so strong to reform him?

Certainly.

Let us know him.

Initially, in nature, the chain of reasons one behind the other looked endless. Now at last the seeker has seen the end of it. Now no more questions remain with him.

Something which is there must show that it is there, especially when nothing else is existing. The universe is the expression of this reality. Everything is a part of this expression. The necessity and possibilities of nature create the world. There is no room either to celebrate or to feel sad about this situation.

Now with the Truth in the background what could be the attitude of the enlightened?

The attitude of the Truth itself!

Just be…that's all…. be the expression of Truth - to the extend possible.

Knowledge removes ignorance. The satisfaction of knowing the Truth keeps the enlightened pleasant. This mood when it reaches maximum clarity (natural innocence) becomes the bliss of realization. It is also called the bliss of union of mind with the Ultimate Truth.

Knowingly or unknowingly we see some people talk about the union of soul with the Supreme Soul. We don't mind, provided the union must happen in this life itself, certainly not after death.

On meditation

Enlightenment is not a one time affair. As existence is possible only by continuing in measures (action, continuity) realization also becomes a continuous union of mind and Truth, as long as the enlightened keeps a healthy mind. This process can go smoothly only when the body remains calm and positioned comfortably. Mind wants the body to be so, so that it (mind) can be with the Truth undisturbed as much time as possible in one sitting. This state of being can be called meditation -- true meditation.

There is no complication or artificiality about real meditation at all. It is a natural way of being the Truth.

From the above facts it is obvious that simply keeping quiet by sitting in a particular posture without having anything to do with Right knowledge, would not become meditation. Such kind of inaction of a believer could only be a body relaxing exercise.
On yoga

Nowadays yoga has been taken as keeping the body in various artistic postures one after another to refresh the performer both spiritually and physically. Performers believe in results.

Originally yoga (a sort of exercise) might be meant to reactivate the body from the stiffness and pain of long time sitting in any particular posture. Yogis who used to sit in penance for long periods certainly could have found relief that way.

The philosophy of the enlightened

The Anthropic principle and self centered thoughts

The Anthropic Principle which deals with human development philosophically, supports (?) the belief that a careful planning had been there behind creation of human race and a universe to support it. Some thinkers go to the extend of saying that if things were otherwise we wouldn't be here to know the world. Some others want to consider all that we are to be a random bit of good luck.

Are we really lucky to be human beings? Of course we are us but where is the luck? We are just living and thinking because we are born and have the ability to think in our own way. When mind is reality, what we are now is also a natural reality.

In fact everything is natural. We are only a speck of a creation in the entire universe, so negligible, so feeble, so depending and so ignorant about the past, future and even the presence that many of us would like to think against our own existence.
There is no intelligence or fine tuning behind us. Nature cannot have human like intentions. All that we are is only a course of necessity through chances.

The atheist believer

An enlightened person need not be an atheist all together. The word God is still in his dictionary but with new interpretation. Due to many reasons cited on earlier occasions he cannot believe in a God, and rather go to understand 'Him' both 'physically' and 'spiritually'. To those who prefer not to think he has a simple question: how can we believe one whom we don't know at all?

Truth is in fact, independent of human ignorance.

Prayers, rituals and celebrations do not fascinate the enlightened. But still he would not hate people who are engaged in such practices. He takes all as parts of human nature, against a wider spectrum of personal as well as social necessity groomed down through ages of evolution influenced by environmental factors.

More over philosophying the whole situation the enlightened would prefer to find that belief mostly favours life while non-belief just doing the opposite. Belief even when it is wrong brings hope , find reasons to help others, puts stones upon stones building temples, prayer halls and tombs, creates productive surroundings and initiates positive activities- all in general strengthen and push life forward. Of course belief creates problems too.

Whereas non-belief is concerned (supported by wisdom and spirituality based on Right knowledge) it is not that much enthusiastic about life. Critics perhaps may find a suicidal tendency in asceticism but a right thinking person cannot agree with such criticisms because he finds enlightenment and wisdom do not come before 'experience' which requires on an average more than three quarters of each normal life.

Let us be on both side and ask with wonder: what use life without knowing? and what use it after knowing?

It takes years for a person to know what is real comfort and satisfaction. There is nothing wrong in self learning. It is always better not to worry than worrying about unnecessary material and other selfish interests. We see people perish fighting in the name of religion, language, culture, power and a host of other reasons. Thinkers with universally applicable attitude can do a lot to dilute the situation.

The end of intelligence (knowledge) must be aimed towards quality of life both at individual as well as social level. Mind should be free from unnecessary fear and sadness. Material progress and influence of science on life have to be controlled on both long term and short term basis. Let humanity be proud of complacence and enjoy the spirit of wisdom.

Morality and natural tendencies have to go hand in hand. The last word on morality must come from wise men
who respect both sentiments and principles at the same time. Science or belief alone cannot solve all our problems. Let us wish for an increased influence of spiritualism based on rational thoughts and right attitudes on human society. When everything is right about universe naturally how can human beings go wrong with blind belief and heckles progress all of which can only give more problems than solutions?

Let us repeat: God is to be understood and not to be believed. It is a sort of closing in, a union where there is nothing left to believe but only to accept and surrender. When the choicelessness at the Ultimate level becomes the Truth, what role God has to play in creation? What role a human being has to play except be with the Truth?

Infact nobody hasn't created any universe. It is a phenomenon being created by itself always presently. The job is not yet over and it will never be completed because the possibility, the necessity and the principles involved are timeless.

Infinite number of points representing all the above realities (rationally and physically) emerge and die out every time making the universe an ever new process.

Everything belongs to universe. A universe plus something or minus something cannot be imagined.

The 'Ultimate' can only be by itself -no other way -otherwise how can we call it The Ultimate?

Isn't universe the truthfulness of Truth

Let us feel satisfied that we traversed through the only right way possible and found the only one Truth at the end. We are sure that we did no wrong by selecting any from many, because such a situation does not exist. The Truth is unique and the reality about true seeking is also unique.

The necessity to be is the only principle and force behind existence. What it becomes or what it contains is not important at all. The work (beingness) will go on for ever. No body knows what would be the picture next. The human race need not be here all the time. The 'presence' may be reality but let us not be blind to the reality necessitating all.

In brief let us visualize universe as the choicelessness (necessity) of possibilities to become real and the possibilities of necessities to become unreal. Definitely that could be the only way of existence to happen ever. Such a phenomenon need no further cause behind. The universe is the Self Expression of an Almighty Righteousness.
That which is fully right must be absolutely true, positive and happening. The character of negativity (choicelessness) is positive and that of positivity is negative!

A phenomenon that is unique (as nothing else existing) cannot remain without pulsating as the most precise points of Truth.

The actions satisfy all wants.

Considering the whole and the Truth let us wonder and ask:

Isn't universe the truthfulness of Truth!

An honest thinker would find Truth easy and natural. Whereas a pretender, or a believer would find thinking the hardest of all occupations, repulsive and injuring.

Now let us read what the physicist John Archibald Wheeler of Princeton (USA) has kept for this occasion:

Behind it all
is surely an idea so simple,
so beautiful,
so compelling that when -
in a decade, a century,
or a millennium -
we grasp it,
we will all say to each other,
how could it have been otherwise?
How could we have been so stupid
for so long?

John A. Wheeler - unpublished poem
In this book you will find an honest attempt to visualize the Ultimate Truth.

The author invites you to join the passage to Truth.

Questions you may have like:

Is there any purpose behind existence?
Is there an Ultimate Reality after all?
How to know what one seeks and finds are really true?

etc. are seriously discussed and satisfactorily answered.

A true thinker cannot afford to be without this book.