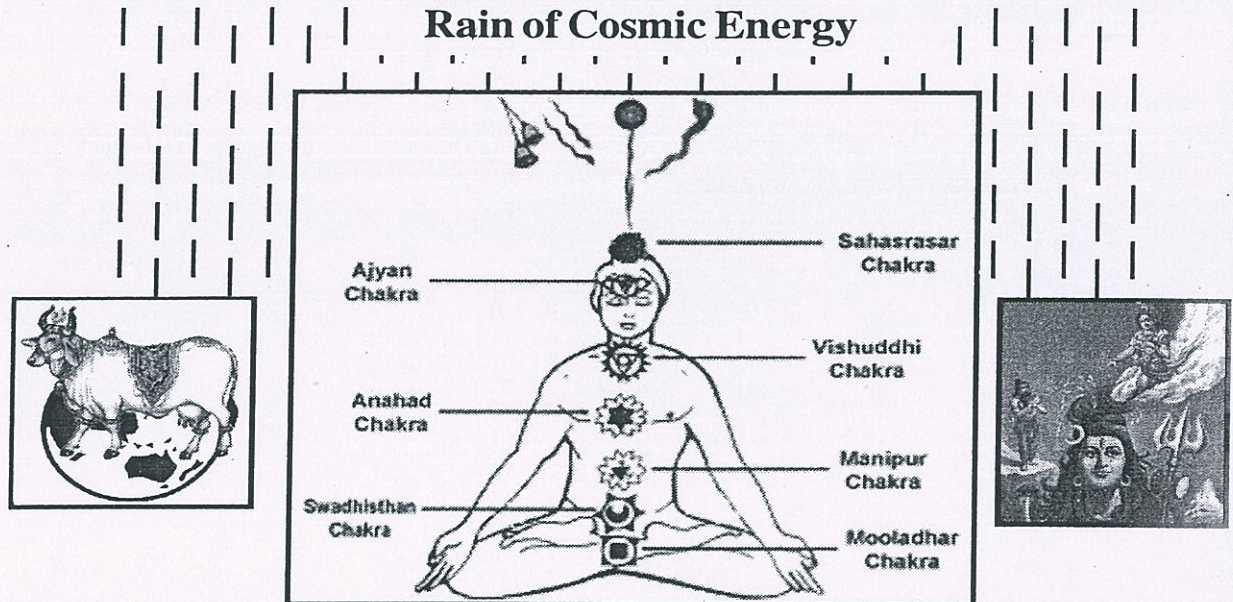


PART - III

Human Physiology Anatomy ; Dharm and Symbols

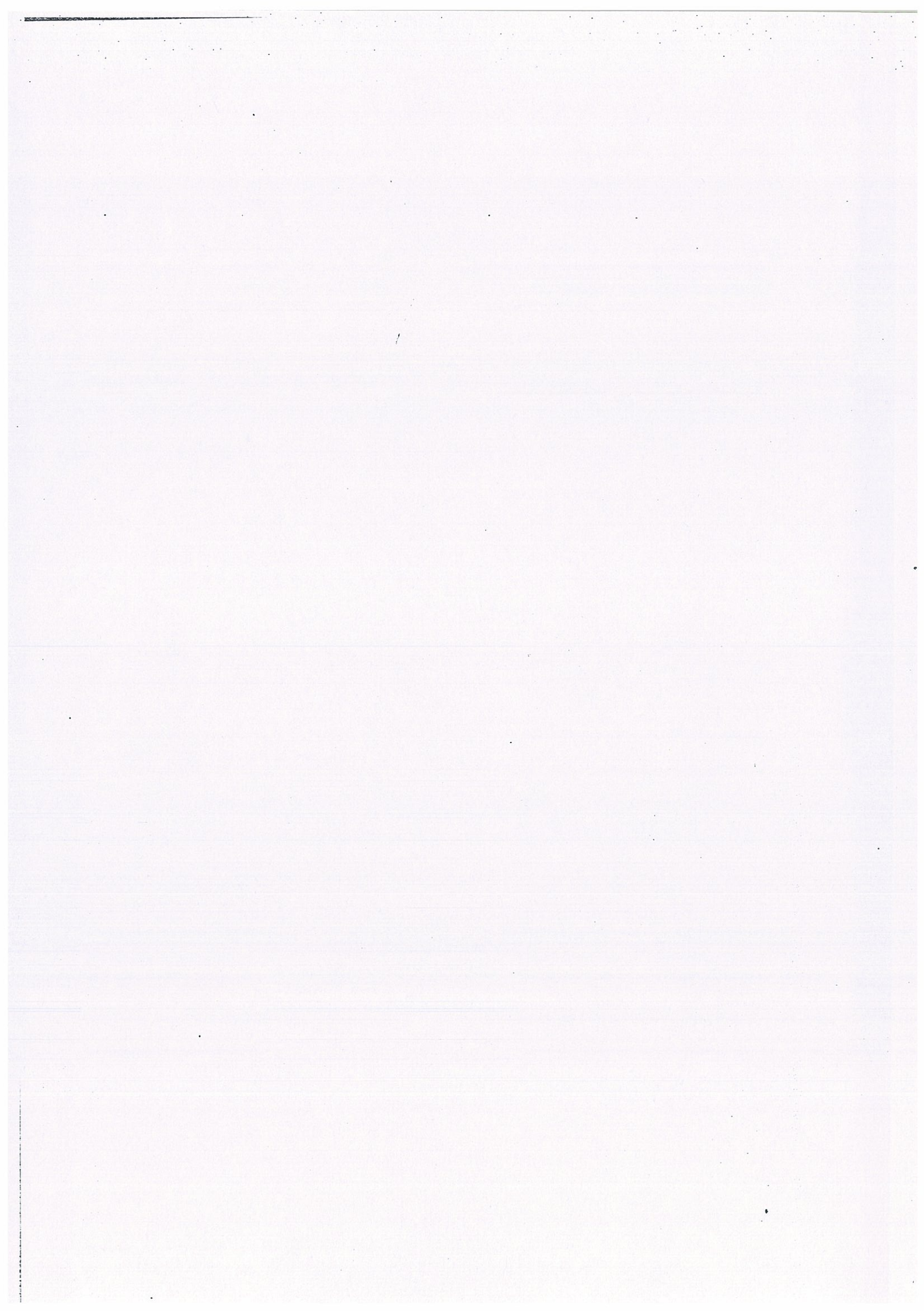


The essence of the ideas expressed by Dr. Frit Jof Capra, the author of the world renowned book "The Tao of Physics" (P-82-83) is given below:-

The positive charge existing in the nucleus of an atom and the negative charge of electrons can be experienced easily in the macro. Due to these forces of attraction, several atoms are created through chemical reactions, which further form molecules. Such forces of attraction are the basis for the creation of all kinds of solids, liquids and gaseous materials as well as the constitution of the physical bodies of all living beings :

The detailed version (Pages 82-83)

The basic force, on the other hand, which gives rise to all atomic phenomena is familiar and can be experienced in the macroscopic world. It is the force of electric attraction between the positively charged atomic nucleus and the negatively charged electrons. The interplay of this force with the electron waves gives rise to the tremendous variety of structures and phenomena in our environment. It is responsible for all chemical reactions and for the formation of molecules, that is, of aggregates of several atoms bound to each other by mutual attraction. The interaction between electrons and atomic nuclei is thus the basis of solids, liquids and gases and also of all living organisms and of the biological processes associated with them.





OM(ॐ) -AN ECHO - THE SCIENTIFIC VIEW

Since it is an era of science, therefore it is essential that the meaning of symbols and myths should be decoded and expressed in terms of modern science. As the modern generation, accepts everything on the basis of evidence, therefore in the following lines, an effort has been made to understand why the echo of *OM* (ॐ) has become a great asset and has been given the highest priority in Vedic scriptures.

It is well known, that since time immemorial this echo of “*OM*” (ॐ) has been worshipped by all sections of Vedic society and accepted as the sacred name of God. Srimad Bhagwad Geeta says ‘*Omiti Ekakshharam Brahm*’ (8/13)- meaning that ‘*OM*’ (ॐ) containing only one syllable is the name of God. This single syllable name is so important, that it is compulsorily pronounced before every Vedic mantra.

To understand the reason, we have to know about the creation of our universe. Our *mother earth* is the member of our solar family and the sun along with its entire family completes its one revolution around our galaxy in 22 ½ crores of years. Our ‘*Aakash Ganga*’ approximately contains hundred billion stars (suns). Several stars are even bigger than our sun. In the whole universe, there are approximately one hundred billion galaxies like that of our galaxy. Modern science believes, that the universe has begun with a ‘*Big-Bang*’ and thereafter the galaxies are divergently moving away at an average rate of 20,000 miles per second, whereas the Vedic Rishis have stated that the creation has no beginning and it is never born. It exists same since time immemorial and the galaxies are revolving around some centre and not running away to infinity.

It seems, that during ‘*Sathya Yuga*’ (Golden Age) the Vedic Rishis heard a constant echo of ‘*OM*’ (ॐ) in their state of ‘*samadhi*’ and also visualized the form on the screen of their sub-conscious. The Rishis unanimously declared ‘*OM*’ (ॐ) as the name of God – the creator. They advised¹ us to precede this syllable (ॐ) before every mantra and

¹ Srimad Bhagwad Geeta – 17/24.

meditate upon the form as a firm basis, because otherwise there was no other means to identify the unmanifest '*Brahm*'.

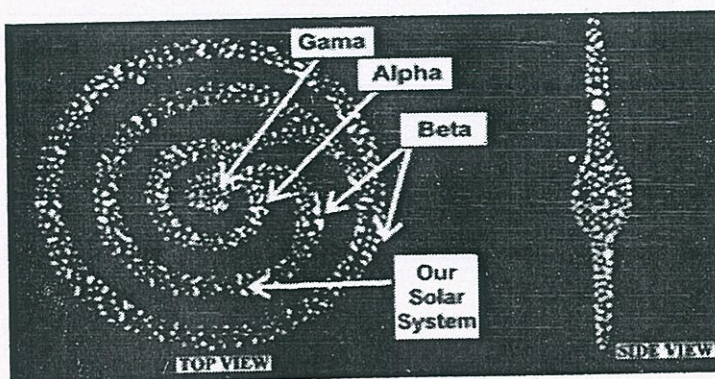
Our mother earth is constantly revolving around the sun and rotating at its axis as well. It contains an atmosphere also upto 400 k.m. around it. Yet we do not hear any echo. But the Rishis heard an echo in the state of trance. It is stated to be musical, hence it has been named as *udgeeth* (a melodious sound in the space).

Those researchers named this as '*Pranava*' also, which means "*The storehouse of energy*". As we already know, that due to the terrific motion of galaxies, there is a constant flow of kinetic energy, which equals to $E=1/2 mv^2$, where E = Energy; m = mass of galaxies and v is the velocity of galaxies. Since any kind of energy can be converted into any other form of energy also, therefore the entire universe is created and sustained from this energy of *OM* (ॐ).

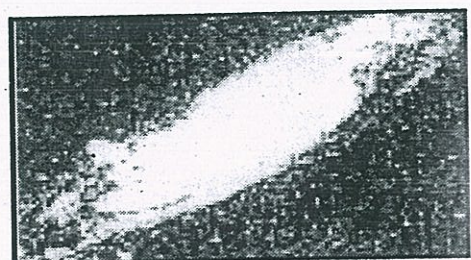
This echo of '*OM*' is produced in the natural way. It is since time immemorial and shall remain also for unknowable period, hence it has been given the highest position and a rule made to pronounce this syllable before every mantra. Later on, the followers of religions knowing its greatness adopted it with slight change in pronunciation as '*Omeen*' and '*Ameen*'. There are many more names of God, but they are subsequently worked out by the literarians.

Since the echo of *OM* (ॐ) is a natural sound, therefore if the practitioner concentrates his mind on the sound through japa and meditation, then the sub-conscious of the *sadhaka* starts vibrating from this sound and he experiences bliss.

Our Galaxy



Other Galaxy



- a. Length of our galaxy = one lakh light years.
- b. Distance of our sun from the centre of the galaxy = 32000 light years.
- c. One light year = 9.46×10^{12} kilo meter.

NOTE:- Please look at the fig. carefully:-

1. The composition of stars is such, that if the two outer rings are excluded, then the fig. of 'ॐ' naturally projects itself.
2. The central column represents Shivalinga or jyotirlinga.
3. The first stanza of Gayatri Mantra contains the research of OM.

-Hari Om Tat Sat-