

THE THEORY OF SCIENTIFIC THINKING

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Abstract

How the mind works. Scientific thinking with a cognitive model derived from ancient Indian texts with illustrations provide rich information for all keen on studying Science with Spirituality. The associations between modern Neuroscience and the Vedic theories of Consciousness have been discussed and an attempt has been made for a scientific approach towards human thinking, development of thought processes in the brain

and causative mechanisms of the connections of Cognition with the Cosmos. A cognitive model is proposed which outline variables in Neurosciences based on Scientific research and discoveries over the last century and connects to the Vedic texts almost completely.

Dedicated to

Humanity

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this period of world quarantine during 2020 that gave us time to introspect, rethink, relive and write

&

to my family

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CHAPTER 1

INTRODUCTION

It is going to be long journey , for some .
Days will pass into months , years into decades
until the light merges with the soul and beyond.
This existence of a human on planet Earth
began 2.8 million years ago while the earth has
existed since 4.54 billion years which itself is
one third the age of the universe . The total

fraction of an average human life of 79 years compared to this geological time scale is perhaps not even worth a mention. However, as we do strive to live a life , there are reasons to believe that our presence has a purpose and we need to understand it.

It is surprising that we still haven't come across civilisations beyond Earth , at least nothing more than a few personal alien encounters , entity visualisations , spaceships and other paranormal experiences described by some victims either labelled as hallucinations ,

hysteria or maybe truth that couldn't be expressed into words. These are beliefs that stays with the human form that describes it , a body experience that was meant for it and something that is still beyond the comprehension of another human form in this stage of our cognitive development. Is the evolution repeating itself, are we developing the same scientific techniques that have been described before in our ancient texts ? Is there a step in evolution that we missed or is there a communication that makes an appearance when the enviourment has the same electrochemical

signals that trigger its generation. Is it the dark matter that we need to know more about or the need to study our ancient texts more carefully to understand the nuances of what our ancestors were trying to explain. This requires a coordinated effort of Vedic Scholars and Scientists to think away from the normal associations and connect into the hidden world.

CHAPTER 2

Scientific Facts in Ancient Texts

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Mlecchas , the Indo-Aryan perception of incomprehensible alien people and languages, together with the British and Mughals, became an irony of fate for Indian culture in the last few centuries . Until then the sculptures and scripts were well preserved. The Englishmen failed miserably to claim such texts as their own while Mughals tried to unsuccessfully destroy them during their reign . It was a pyrrhic victory for Indian culture gaining independence from both but losing unto the very strings of their existence, a culture that was well preserved

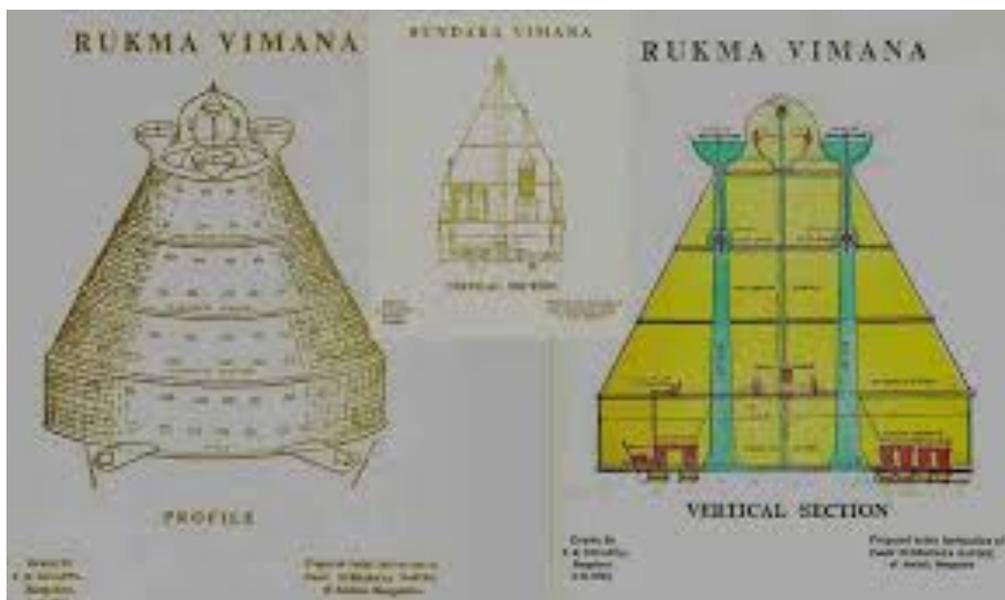
over ten thousand years of human history, the oldest documented texts in history of mankind.

Carl Sagan , Cosmos has stated that “ It is the only religion in which time scales correspond to those of modern scientific cosmology . Its cycles run from our ordinary day and night to a day and night of Brahma, 8.64 billion years long , longer than the age of earth or the sun and about half the time since the big bang.”

Some theorists say the big bang theory resembling Shiv Lingham is inspired from the Vedas.

THE VIMANA

Designed and constructed by Vishwakarma , these interstellar crafts could not conquered, they radiated light and reverberated with deep rumbling sounds. In Bhagavad Gita, Arjuna describes a trip he took in a Vimana to the heavens where he saw thousands of airborne chariots and a massive Vimana that was seven stories tall. This is believed to be a primitive



intepretation of a mothership from where many
Vimanas to earth originated.



These texts are an immense source of
information about our origin and existence ,
mostly in Sanskrit, though available in other

languages also, having survived the wrath of invasions, civilisations, pandemics, even near annihilation periods since the origin of the universe and have been etched into books through the course of history over centuries .

The perplexing question is about how these texts were precisely able to define stars , planetary movements , distances between the Earth and Sun, when there were no telescopes and no modern equipments. Did the aliens really exist, imparted the knowledge and then disappeared into thin air, Is there a step in evolution that we have missed altogether, Were

we privileged to have this knowledge being the oldest religion in the world or Is there a direct connection between our existential body and the cosmos, the power of which the saints were able decipher by meditation and

CHAPTER 3

Cognition and Cosmos

Vedic theory which dates back to 2000 BC dissociates the tools of awareness of the self such as vision, hearing from the person who himself attains this awareness. Self awareness became a phenomena where there was self and its associations of neural hardware of the brain.

We have now understood a step forward by realising that there is a dynamic interaction of the self with the environment and consciousness considered as a quantum mechanical waveform. Schrodinger's development of quantum mechanics was inspired by Vedanta or the Vedic system and in his essay in 1925 before giving his quantum theory he mentioned about 'tat tvam asi' meaning *this is you* implying *I am the entire world* and created a universe model based on superimposed inseparable waves of probability

amplitudes, with Heisenberg and colleagues, entirely consistent with Vedanta principles.

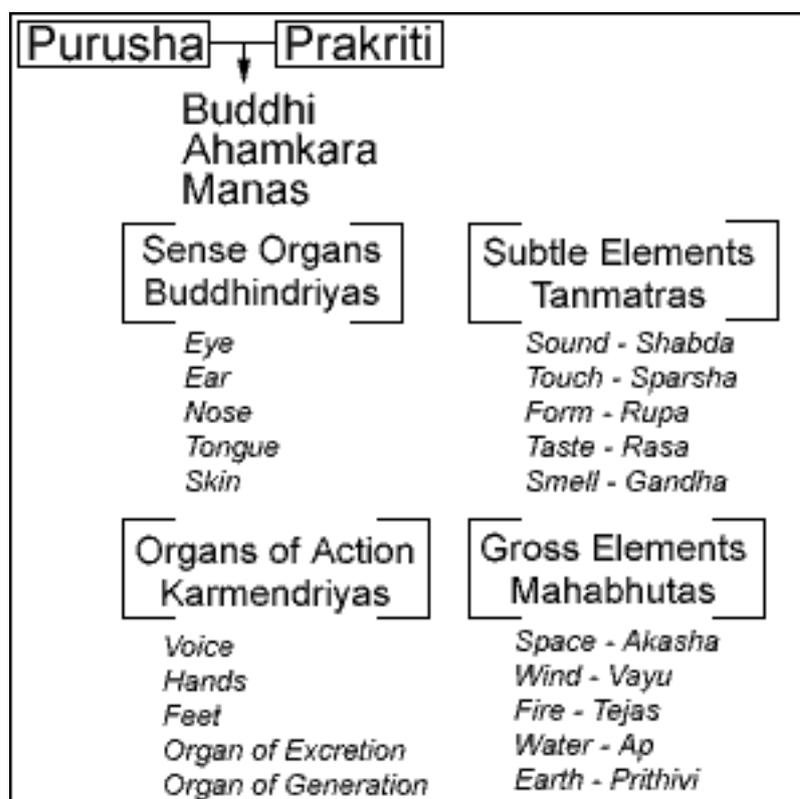
There is a parallel correlation between Vedic theories of consciousness with quantum mechanics and neuroscience . Gerald Edelman tries to explain in his book ‘A scientific analysis of consciousness must answer the question that how can the firings of neurons give rise to subjective sensations, thoughts, and emotions.’ Interestingly, according to Benjamin Libet, in the readiness potential, the brain takes eight tenths of a second before voluntary act begins even though the urge to perform the act was an

implicating factor, thereby stating this is not an epiphenomenon or a byproduct of a brain activity but is a unified event so this should be described as a quantum mechanical wavefunction. Neil Bohr introduced complementarity which exhibited by life may be expressed between structure and behaviour. He stated that *'the instantaneous state of thought may be considered to be the position of a particle while the direction..*

Neuroscience explores the brain in modern science to a great extent. With all the latest

radiological imaging techniques Brain can now be visualised to minute details . Together with Neurosurgeons performing surgeries with complete tactile input from structures in the Brain , Science is now at frontiers of discoveries in times to come . We must also strive to keep concepts of Vedic texts as we move on so that during this course of our evolution we arrive at conclusions that can also be confirmed in lines with the texts. As stated in previous chapter discoveries such as measuring distance of Sun to Earth when there were no telescopes, that the earth was round, gravity

principles, medical and surgical texts are no ordinary discoveries that have come alive in past centuries and even today we haven't completed the list of events those texts have described. So, we can propose a neuroscientific model to cognition based on Vedic theories of Consciousness and to merge these concepts with our current knowledge



is indeed interesting and maybe this can at least provide a template to more precise and definite theories of cognition and the discovery of the self.

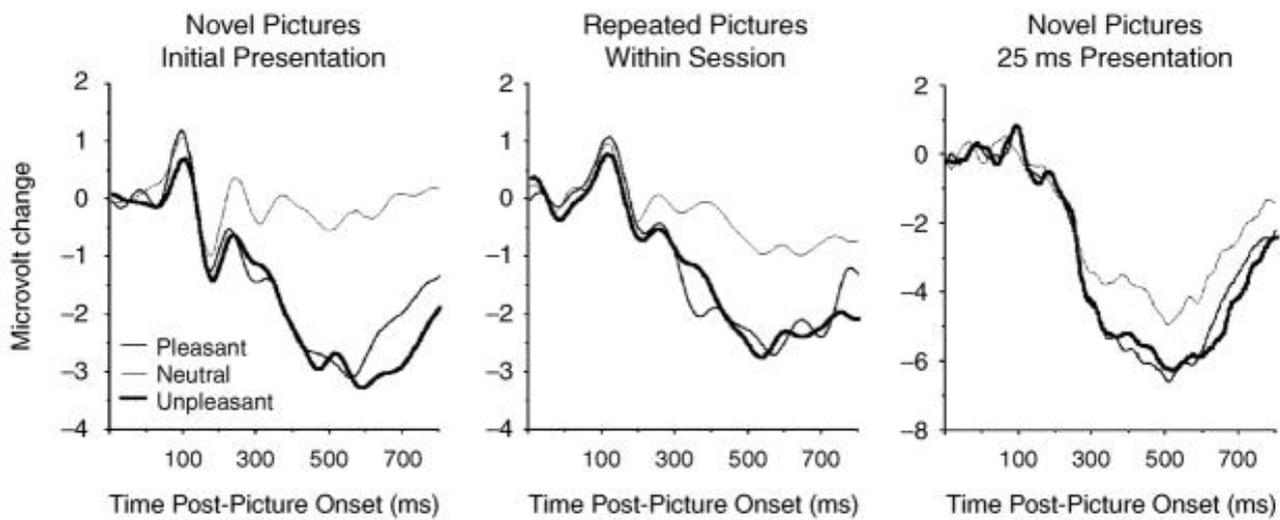
CHAPTER 5

Cognition Model

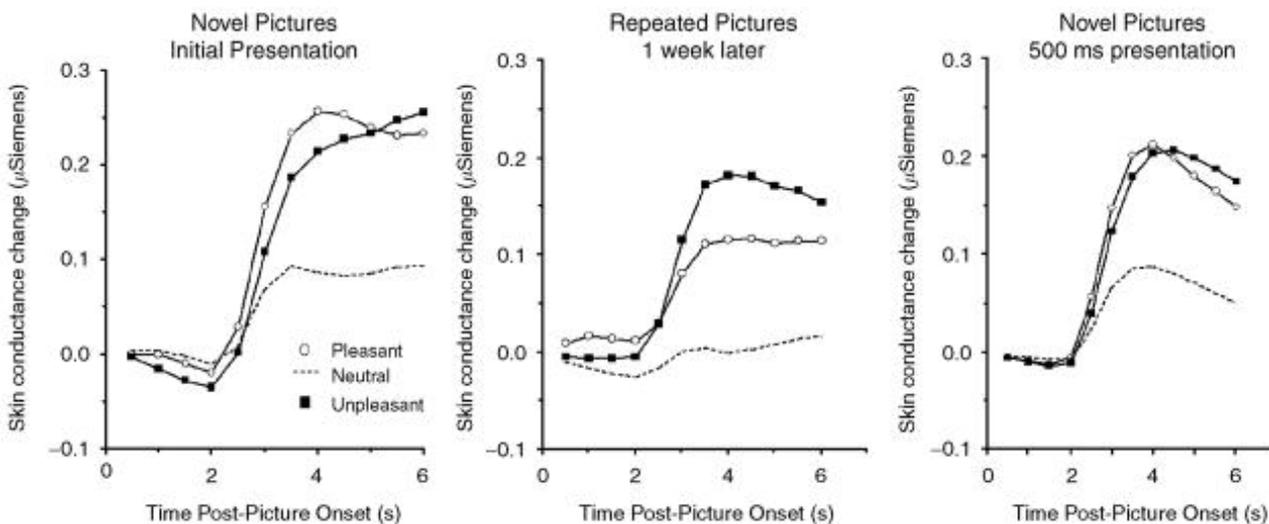
During the course of twentieth century numerous brain interpreting theories have come out . One of them were the Orienting Reflexes given by a Russian called Sokolov in 1956, which were defined as a response of the body to its surroundings and was measured in terms of

event related potentials or ERPs , skin conductance levels or SCLs and others .

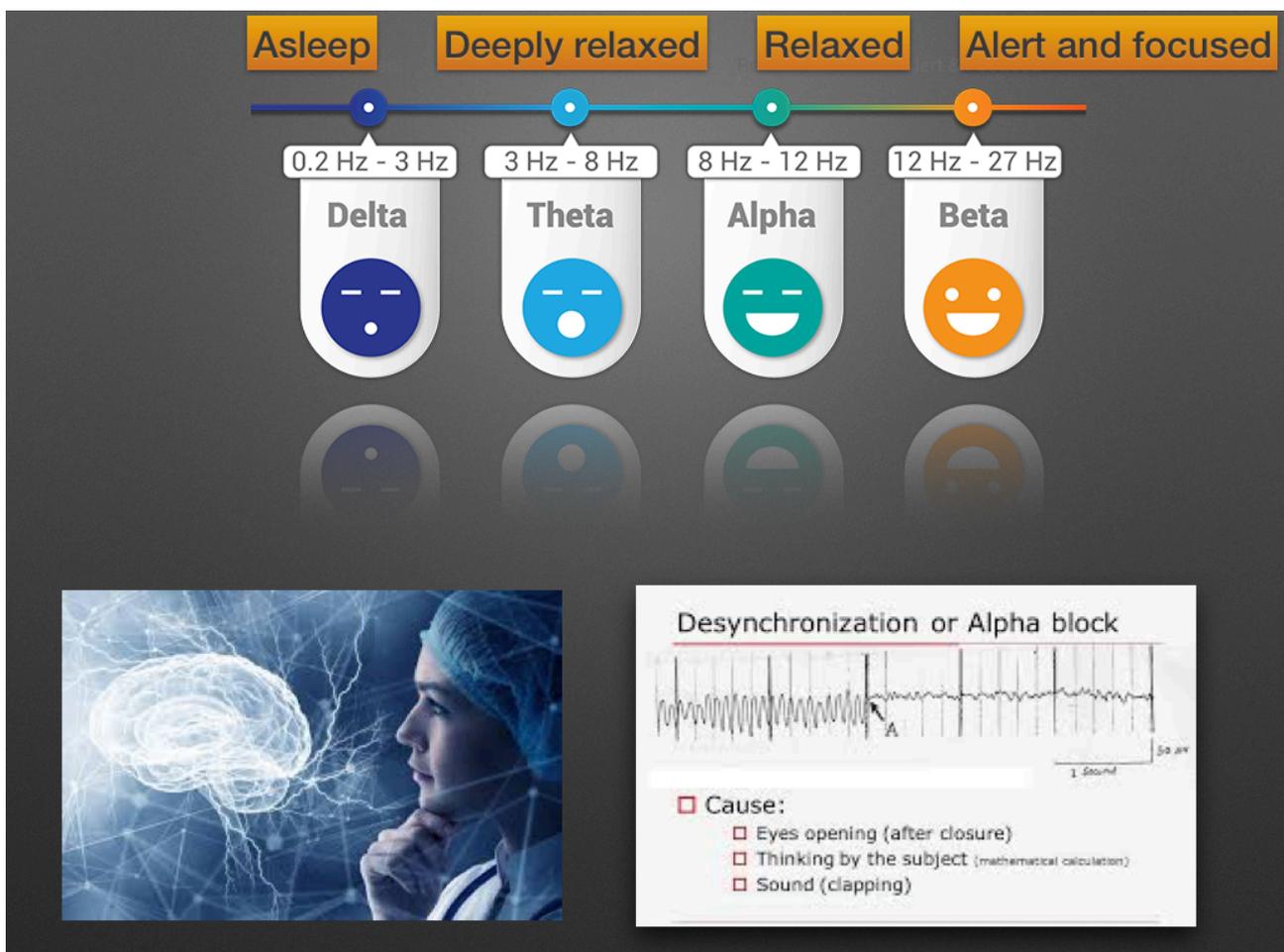
Orienting and Event-related Potentials



Orienting and skin conductance



Much earlier the electroencephalograph was developed by a German in 1913, Hans Berger, which had the ability to detect and plot electrical signals which were coming out of the brain.



Thus, there have been numerous developments in the field of neuroscience over the last century which have enabled us to understand the level of consciousness to a certain extent as mentioned in the Vedas also. We are far from a complete understanding of this subject and this model could just be a step in evolution of the final path that would lead eventually to understand the self with a universal experience . Relentless works of great thinkers and scientists around the world would eventually be able to decode the secrets of our

thoughts, state of consciousness self and the
universal mind with scientific explanations.
