

**List of VM Consolidated
documents of Dr. S. K. Kapoor**
**List 2 Different aspects of
Vedic Mathematics**

Article 54

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Article 54

Format and other approaches

1

**Format approach
Basic Approach**

1. The basic approach as format approach is primarily two fold parallel to Sankhiya Nishtha and Yoga Nishtha.
2. Sankhiya Nishtha avails artifices of numbers to be worked along geometric formats of dimensional spaces.

3. Yoga nishtha avails dimensionalized spaces chase along artifices of numbers
4. First feature of Sankhiya Nishtha availing artifices of numbers is to chase in terms of organizations of place value systems.
5. Most favoured place value system is the ten place value system.
6. As such nine numerals range together with place value '0' emerge the basic artifices.
7. This range of ten artifices (0, 1, 2, 3, 4, 5, 6, 7, 8, 9) and parallel to it the double digits range (01, 02, 03, 04, 05, 06, 07, 08, 09, 10) deserves to be chased for their features and values
8. On the other hand, parallel to Sankhiya Nishtha, the yoga nishtha as well accepts dimensional space content of 1-space to 9-space along with the origin source reservoir being the Par Braham marking its manifested existence presence as ten space.
9. This dimensionalized space content range (0-space content, 1-space content, 2-space content, 3-space content, 4-space content, 5-space content, 6-space content, 7-space content, 8-space content and 9-space content,) and parallel to it (01-space, 02-space, 03-space, 04-space, 05-space, 06-space, 07-space, 08-space, 09-space, 10-space)
10. The transition from single digit expression formats to double digit expression formats, in the context of artifices of numbers and dimensional frames is of the feature of transition from full dimension to a pair of half dimensions set ups.
11. This, ultimately shall be amounting to of the format and features of transition from

linear dimensional formats to spatial dimensional formats.

12. With 7 as the biggest prime numeral, as such artifices 1 to 7 and parallel to it 1 to 7 dimensional spaces that way bring to focus 1-space to 7-space.
13. With it, 1-space to 7-space contents manifesting as domain folds of hyper cubes 1 to 7 become the subject matter of chase.
14. This, this way makes format approach essentially being the approach of chase of formats of hyper cubes 1 to 7.
15. Symbolically hyper cubes 1 to 7 may be expressed as

HC = Hyper cube, S = Symbol,
Dimension = Di, Boundary = B,
Domain = Do, Origin = Or, Space
content (Sc) Format = (F) Self
Referral = Sr

Transcendental = Trans, Unity age =
ua

Sr	HC	S	Di	B	Do	Or
			Sc	Sc	Sc	Sc
1	HC 1	—	(-1) Sc	(0) Sc	(1) Sc	(2) Sc
2	HC 2	□	(0) Sc	(1) Sc	(2) Sc	(3) Sc
3	HC 3	▣	(1) Sc	(2) Sc	(3) Sc	(4) Sc
4	HC 4	▢	(2) Sc	(3) Sc	(4) Sc	(5) Sc
5	HC 5	⊞	(3) Sc	(4) Sc	(5) Sc	(6) Sc
6	HC 6	⊞↔	(4) Sc	(5) Sc	(6) Sc	(7) Sc
7	HC 7	⊞↗	(5) Sc	(6) Sc	(7) Sc	(8) Sc

Base (s)	F Sc	Trans Sc	Sr Sc	Ua Sc
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(3) Sc	(4) Sc	(5) Sc	(6) Sc	(7) Sc
(4) Sc	(5) Sc	(6) Sc	(7) Sc	(8) Sc
(5) Sc	(6) Sc	(7) Sc	(8) Sc	(9) Sc
(6) Sc	(7) Sc	(8) Sc	(9) Sc	(10) Sc
(7) Sc	(8) Sc	(9) Sc	(10) Sc	(11) Sc
(8) Sc	(9) Sc	(10) Sc	(11) Sc	(12) Sc
(9) Sc	(10) Sc	(11) Sc	(12) Sc	(13) Sc

The nine features range of each hyper cube in terms of range of 9-space content deserves to be chased. Total expression for whole range of Ranges of all 7 hyper cubes takes us through (-1) space content to 13 space content and thereby the emergence of 15 space contents becomes the basic Transcendental range of space contents whose comprehension, appreciation imbibing and glimpsing shall be bringing us face to face with the formats approach to the organization of Vedic knowledge and its systems and processes.

Domains fold chase

1. The domains fold chase of hyper cube 1 to 7 is the chase of space contents of 1-space to 7-space.
2. This chase is going to be the chase of manifestation of space content as domain fold of corresponding hyper cube.
3. Domain folds of hyper cubes 1 to 7 may permit expression as seven steps long range ($a^1, a^2, a^3, a^4, a^5, a^6, a^7$)
4. Parallel to it chase may be as (length, area, volume, hyper volume (4, 5, 6, 7)/

5. This as such shall be amount to resorting to length as a measure / unit, area as measure / unit, volume as a measure / unit and hyper volumes (4, 5, 6, 7) as measure units.
6. This would further bring to focus the transition from (length (linear unit) to spatial (area unit) and from length and area units to volume unit (solid unit) and further to hyper solid units.
7. The inter-relationship of linear and spatial units and of any two units as well would deserves to be chased.
8. The acceptance of area as product of length and breadth, both accepting linear units, as such as well deserves to be revisited.
9. The manifestations of lines and surfaces within surface and approach both to lines and surfaces within surface in terms of spatial units as well deserves to be chased, surface as a set of infinite lines and surface as a track of moving line as well deserves to be chased.
10. Line as a set of infinite points and surface as a set of infinite lines as well deserves to be chased.
11. Point of a line and point of a surface being differently structured as such transition from the structured point of line to structured point of a surface as well deserves to be chased.
12. It would be relevant to note that point as point domain of hyper cubes are structured parallel to the structures of the concerned hyper cubes.
13. This feature of whole range of structures of hyper cube being carried by the point of the hyper cube, as such deserves to be chased
14. The structured point being replica of the domain itself is the feature which deserves to be chased.

Boundary folds chase

1. Boundary folds are domain folds but being in the role of boundary of another domain.
2. Domain boundary ratio formulation $a^n : 2n b^{n-1}$, as such adds another features to the format of boundary fold, as much as that boundary splits into $2n$ components.
3. In other words $(n-1)$ space content as domain fold, in $(2n)$ numbers synthesized boundary of hyper cube n .
4. Hyper cubes 1 to 7, as such lead to boundaries range of components (2, 4, 6, 8, 10, 12, 14) respectively.
5. The unity range (1, 2, 3, 4, 5, 6, 7) leading to another unity range (2, 6, 8, 10, 12, 14) deserves to be chased
6. Here it may relevant to note that parallel to boundary components range (8, 10, 12, 14) is the range of (8 vasu, 10 Brahma, 12 Aditaya, 14 bhuwan).
7. Like that the format of boundaries of hyper cubes are parallel to organization formats of Vedic knowledge and its systems and processes.
8. The domains and boundaries themselves avail the formats and features of odds and evens (numbers) formats

(2n+1)th Geometry

1. First vedic mathematical topic which need be attended to by the modern mathematics is (2n + 1)th of geometry of n-space.
2. This in a way is going to be an attention to (2n+1)th version of hyper cube n.
3. (2n+1)th version of hyper cube n is (n-space) content manifesting as domain fold being completely free of its boundary fold.
4. In other words n-space as domain fold is being attended to as being free of its whole range of boundary fold.
5. In other words, all the 2n boundary components of hyper cube n shall be stripped off from the domain fold of hyper cube n.
6. This as such shall be bringing us face to face with open n-space domain.
7. The open interval as third version of interval parallel to third geometry of 1-space is going to be open n-space domain with $n=1$.
8. Likewise for $n=2$, we shall be phase to phase with open 2-space domain / open square / open circle as third version of hyper cube 2 / it would be parallel to fifth geometry of 2-space
9. Open interval as a set (x) accepts the prayer of properties which shall be making it a Topology which may be designated as T_1 .
10. The sequence of topology ($T_1, T_2, T_3, \dots, T_{10}$) is a unique sequence which shall be constituting a measuring rod for hyper cube n domain itself.
11. Modern mathematics, on chase of this sequential range of topologies as a sequence of sequences of topologies [$(T_1), (T_1, T_2), (T_1, T_2, T_3) \dots$] shall be enriching itself not only in the Discipline of topology but also, particularly in whole range of mathematical analysis.
12. Space, here would get fixed in terms of space content.
13. Further space content would get fixed in terms of its manifestation as a domain fold within special dimensional frame.
14. The fixation of space as space content as manifested domain within specific dimensional frame shall be taking to the origin as the unifying value which itself shall be manifesting next dimensional domain enveloped within the boundary of the given space content itself.
15. Further the range of geometries of signature 0 to $2n-1$ shall be having boundary components (0 to 2 and -1) respectively.
16. This feature of availability of 0 to $(2n-1)$ boundary components, as such shall be making n dimensional domain being of partial openness with availability of boundary components 1 to $(2n-1)$ and full openness in case of only zero boundary component.
17. The chase of these features shall be suitably enriching the topology of the n-space for all values of n.
18. However the whole range of topologies being countable in number shall be making a transition and transformation for next stage

topology to be designated as the origin space topology.

19. It is this reach uptill origin space topology for each space and further the reach of whole range of origin spaces topology shall be exhausting itself by coming in a recycle and renewing mode as the ultimate feature of spatial dimensional order of creator's space (4-space) permitting Transcendence therefrom to solid dimensional order and this Transcendence sequence to continue its attainment for uncountable topological spaces, individually as well as collectively.

Shift from half boundary chase to full boundary chase

Modern mathematics is held up in its calculus because of the definition of derivative of the function, which is parallel to chase of half boundary.

The deferential and integral calculus so Disciplined as condition itself it always remain in linear mode and because of it the spatial and higher orders stand ruled out for their coverage.

The need is to simultaneously chase '2 as 1' and '1 as 2', which shall be attaining spatial order domains (4-space).

Four fold manifestation format of spatial order 4-space is different than that of linear order format of 3-space.

This as such is to be taken as second vedic mathematical topic which need by chased by modern mathematics to transcend through its mathematical knots.

Mathematical Discipline of dimensional synthesis, which presently is out of reach for the modern mathematical processing, deserves to be chased and with its chase the

unnecessarily limitations of modern mathematical analysis will get desolved of their own.

Sankhiya Darshan

1. Sankhiya Darshan is the Discipline of mind glimpsing the existence phenomenon along geometric formats in terms of artifices values..
2. The geometric formats coordinates and synthesize a measuring rod of hyper cubes 1 to 6 for solar universe of Earth to Sun range with pole star as its origin source reservoir of unity state values flowing along the measuring rod and unifying the solar universe.
3. Unification is of self referral nature because of which the pin human body and Brahmand (solar universe) accept parallel formats which permits unison pairing.
4. With it the artifices of numbers and dimensional frame run parallel to each other for processing systems of the existence phenomenon of our solar universe.
5. With it emerges single alphabet of values of existence phenomenon and accordingly same set of formulations yield to parallel systems for processing along dimensional spaces as well as along numbers values.
6. As such Sankhiya nishtha goes parallel to yoga nishtha.
7. The both Sankhiya nishtha and yoga nishtha go parallel, as well as those become complementary and supplementary of each other

8. With it the attainments, insight and glimpsing of virtues may it be by Sankhiya Nishtha or by yoga nishtha, emerge to be of same order of enlightenment. It is this degree of enlightenment which becomes the index of Sankhiya Darshan
9. The simple English rendering of 'Sankhiya Darshan may be the glimpsing range of artifices of numbers along geometric formats of dimensional spaces
10. With it the Sankhiya nishtha because of it availing artifices of numbers along geometric formats, the same becomes the Discipline of natural formats and values parallel to solar universe acquiring dimensional order of eight fold nature.
11. It is this feature of solar universe being playing the role of dimensional order of eight fold nature, which deserves to be chased glimpsed.
12. Solar universe as dimensional order is of the formation and features of 6-space playing the role of dimensional fold.
13. 6-space as dimensional fold structures 8-space as domain fold.
14. The artifices pair (68, 86) with summation value $68 + 86 = 154$ deserves to be followed as that $154 = 76 + 76$.
15. It as such, brings into play artifice 7 which otherwise has a unique placement in reference to artifices pair (6, 8).
16. The artifices triple (6, 7, 8) leads to self referral range of artifices (678, 687), (768, 786), (867, 876) of these the artifice 786 is of central format and features as much as that it accepts re-organization as 6×1 value at unit place and 6×13 for next placement.
17. Here it also would be relevant to note that 6-space accepts 13 geometries range and parallel to it hyper cube 6 accepts 7 versions
18. Further $7 \times 4 = 28$ as the value of second perfect number with 6 being the first perfect number, as well deserves to be comprehended and imbibed well
19. The re-organization of $28 = 1 + 2 + 4 + 7 + 14 = 1+2+4+ 1+2+4+ [(1+2+4) + (1+2 + 4)]$.
20. Further $28 = 3 + 5 + 9 + 11$ permitting chase from both ends for reach at the middle through Transcendence range (5, 6, 7, 8, 9) with a jump over (6, 7, 8) as well deserves to be chased for its full comprehension, complete appreciation and proper imbibing to have insight and glimpsing.

Sunlight Transcendental carriers

1. Sunlight meditation activates Sunlight Transcendental carriers for unity state along Shad Chakra formats of human frame.
2. Sunlight as seven streams flow through pole star as origin source reservoir of solar universe.
3. This seven stream flow within 7 dimensional frame of pole star as origin source reservoir makes out 7×7 matrix format of axes

4. The seven dimensional frame being of Transcendental dimensional order (5-space) in the role of dimension, as such coordinates 5-space set up with 6-space set up as artifices pair (56, 65) with summation values $56 + 65 = 121$ parallel to format and features of unification
5. The Transcendence of 5×7 coordinates through 7×7 matrix of axes shall be of the format of 6×6 matrix format of real 36 Transcendence flow stream through the centers of grid zones of 7×7 matrix format
6. This Transcendental reach from 7-space as origin source reservoir up till solar domain (6-space as domain) would be parallel to the reach of the Sunlight of 7 streams up till the 6th chakra of human frame having its location at the top tip of head
7. It would be relevant to note that this reach shall be of the coordinates values $7 \times 6 = 42$ which is essentially of the format and features of spatial order creator's space (4-space) accepting Transcendental origin of Transcendental reach from ultimate Nav Braham origin source reservoir.
8. One may have a pause here and take note that this format and features of Sunlight Transcendental carriers flow through 6th chakra makes the existence phenomenon within human frame of Transcendental format and features.
9. It is this feature of Sunlight meditation which deserves to be chased fully for its comprehension and appreciation to have complete imbibing for appropriate glimpsing and insight of this Transcendental phenomenon.
10. This, in a way is the attainment of the order of format and features of Virath Purusha.
11. The Transcendental carrier transcend ahead from 6×6 matrix format of Shad Chakra to 5×5 format of fifth chakra
12. One may have a pause here and take note that the reach from $7 \times 7 = 49$ to $6 \times 6 = 36$ with difference value $49 - 36 = 13$ is parallel to the 13 geometries range of 6-space.
13. A step ahead the reach from $6 \times 6 = 36$ to $5 \times 5 = 25$ with difference value $36 - 25 = 11$ is parallel to 11 geometries range of 5-space .
14. With this the sequential reach shall be of values range (13, 11, 9, 7, 5, 3) and parallel to it there are (13 geometries range of 6-space, 11 geometries range of 5-space, 9 geometries range of 4-space, 7 geometries range of 3-space, 5 geometries range of 2-space and 3 geometries range of 1-space
15. This way Transcendental unity stands attained for existence within human frame coordinated in terms of Shad Chakras formats which parallel to measuring rod of solar universe synthesised as hyper cube 1 to 6 and of geometries ranges (3, 5, 7, 9, 11, 13) with summation value $(3+5+7 + 9 + 11 + 13) = 48 = 2 \times 4 \times 6$ is going to be parallel to dimensional order of 6-space.
16. Further it also would be relevant to note that $3 + 5 + 7 = 15 = 1 \times 3 \times 5$ is

parallel to dimensional order of 5-space.

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Synthesis of dimensional axes

17. Further as that $9 + 11 + 13 = 33$ is parallel to synthesis format of a pair of three dimensional frames of half dimension as a three dimensional frame of full dimensions
 18. One may have a pause here and take note that the transition from $1 \times 3 \times 5 = 15$ parallel to dimensional order of 5-space to $3 + 5 + 7 + 9 + 11 + 13 = 48 = 2 \times 4 \times 6$ parallel to dimensional order of 6-space is to be by bridging the gap in terms of synthetic set up of a three dimensional frame as of a pair of three dimensional frames of half dimensions.
 19. Further it also would be relevant to note that artifice value 33 and its synthetic format is parallel to the format of 'seed' while artifice 48 of format and features of dimensional order of 6-space is further parallel to format and features of 'tree'
 20. Still further it shall be bringing us face to face with the phenomenon of coordination of seed entry in terms of Transcendental dimensional order
 21. It is this feature of Transcendental carriers of Sunlight which deserves to be chased fully for its complete comprehension and appreciation and for appropriate imbibing thereof
 22. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of trans to glimpse the phenomenon of Transcendental unity of existence within human frame parallel to the format and features of virath pursha.
1. Sankhya Nishtha avails artifices of numbers along dimensional formats.
 2. Synthesis of dimensional axes and parallel to it artifices deserves to be comprehended.
 3. Synthesis of a pair of dimensions of order n (n -space in the role of dimension) leads to $(n+2)$ domain and as such pair of artifices (n, n) leads to synthesis value $(n+2)$.
 4. The reverse process of these synthesizing of n domain shall be leading to the pair of dimensions of order $(n-2)$ that is, as that $(n-2)$ space shall be playing the role of dimension of n domain
 5. With it the Brahman range of 1-space domain to 9 space domain shall be leading to dimensional orders range of (-1) space in the role of dimension to 7-space in the role of dimension
 6. It may be expressed as 9-space domain de-synthesizes itself as $(7\text{-space}, 7\text{-space})$
 7. This feature may be expressed as that $(9) = (7, 7)$ and simultaneously it also would be taken as $(7, 7) = 9$
 8. Like that $(8, 8) = 10$ and $(10, 10) = 12$ shall be giving us an insight about this relationship of dimension folds and domain folds.
 9. In addition the place value format and arithmetic operations accepted by numbers shall be bringing to focus other features like $(7, 7)$ leading to $7+7, 7 \times 7$, as well as to artifice 77.

10. All these features deserves to be chased simultaneously to chase the Sankhiya Darshan as speaking language formulations of an alphabet which avails geometric formats and organizations thereof in terms of values permitting association of number values.
11. The other feature of mathematics of synthesis values of triple dimensions of any order being '6', deserves to be chased with pointed attention as that this feature plays a prominent role.
12. The triple (6, 6, 6) being of value '6', deserves to be comprehended well.
13. It is with full appreciation of the feature '6, 6, 6' = 6 that one may have proper insight about the self referral domain (6-space) as dimension, synthesis of pair of dimensions of self referral order (6) leading to self referral domain (6-space) and further even the synthesis of triple dimensions of self referral order (6-space as dimension) leading to self referral domain (6-space)
14. It is this feature of 6-space / artifice 6 / 6 as first perfect number which deserves to be fully imbibed.

Measuring rod

0	1	2	3	4	5	6
●	-	□	⊠	⊞	⊟	⊠
Hyper cubes 0, 1, 2, 3, 4, 5, 6						

1. Unity values flow through the measuring rod format, on its chase shall be brining us face to face with the format and features of existence

- phenomenon within our solar universe with pole star as its origin.
2. The unity values flow path from pole star to Earth is of the expression format (7+0, 7+1, 7+2, 7+3, 7+4, 7+5, 7+6).
 3. Unity values flow from pole star is to be of seven streams flow at zero state.
 4. One unit flow from pole star to Sun is to be of six streams volume.
 5. A step ahead for reach upto space it is to remain only of five streams volume like that it shall be having a sequential reach through air, fire, water as of four three and two streams volumes respectively and final reach at Earth is going to be of single stream unit volume.
 6. The unity state value is going to be Earth '7' and sequentially at subsequent stages the same is to be of values range '7, 14, 21, 28, 35, 42, 49'.
 7. It is this reach from Earth of value 7 to pole star of value 49 shall be yielding summation value of Earth to Sun range of summation value $7 \times 1 + 2 + 3 + 4 + 5 + 6 = 147$
 8. However the total summation value of Earth to pole star range would be $147 + 49 = 196$ units.
 9. The unity values of Earth to Pole star range is going to be of the pairing formats [(1, 7), (2, 7), (3, 7), (4, 7), (5, 7), (6, 7), (7, 7)].
 10. These pairing formats shall be leading to paired pairs of values sequence [(1+7), (1x7), (2+7), (2, 7), (3+7), (3, 7), (4+7), (4, 7), (5+7), (5, 7), (6+7), (6, 7), (7+7), (7, 7)]

11. These paired values sequence will be of artifices values [(8, 7), (9, 14), (10, 21), (11, 28), (12, 35), (13, 42), (14, 49)] as such the chase of the unity state at Earth is to be in terms of artifices pair (8, 7)
12. These paired values sequence will be of artifices values [(8, 7), (9, 14), (10, 21), (11, 28), (12, 35), (13, 42), (14, 49)] as such the chase of the unity state at Water is to be in terms of artifices pair (9, 14)
13. These paired values sequence will be of artifices values [(8, 7), (9, 14), (10, 21), (11, 28), (12, 35), (13, 42), (14, 49)] as such the chase of the unity state at Fire is to be in terms of artifices pair (10, 21)
14. These paired values sequence will be of artifices values [(8, 7), (9, 14), (10, 21), (11, 28), (12, 35), (13, 42), (14, 49)] as such the chase of the unity state at Air is to be in terms of artifices pair (11, 28)
15. These paired values sequence will be of artifices values [(8, 7), (9, 14), (10, 21), (11, 28), (12, 35), (13, 42), (14, 49)] as such the chase of the unity state at Space is to be in terms of artifices pair (12, 35)
16. These paired values sequence will be of artifices values [(8, 7), (9, 14), (10, 21), (11, 28), (12, 35), (13, 42), (14, 49)] as such the chase of the unity state at Sun is to be in terms of artifices pair (13, 42)
17. These paired values sequence will be of artifices values [(8, 7), (9, 14), (10, 21), (11, 28), (12, 35), (13, 42), (14, 49)] as such the chase of the unity state at Pole Star is to be in terms of artifices pair (14, 49)
18. Pole star avails 7-space format with its content manifesting as hyper cube-7 with domain boundary ratio A^7 : $14B^6$
19. **Sun** avails **6**-space format with its content manifesting as **hyper cube-6** with domain boundary ratio A^6 : $12B^5$
20. **Space** avails **5**-space format with its content manifesting as **hyper cube-5** with domain boundary ratio A^5 : $10B^4$
21. **Air** avails **4**-space format with its content manifesting as **hyper cube-4** with domain boundary ratio A^4 : $8B^3$
22. **Fire** avails **3**-space format with its content manifesting as **hyper cube-3** with domain boundary ratio A^3 : $6B^2$
23. **Water** avails **2**-space format with its content manifesting as **hyper cube-2** with domain boundary ratio A^2 : $4B^1$
24. **Earth** avails **1**-space format with its content manifesting as **hyper cube-1** with domain boundary ratio A^1 : $2B^0$
25. The chase of all these features of unity flow within solar universe can be chase upon measuring rod of hyper cubes 1 to 6.
26. Pole Star as origin source reservoir of unity state binds the solar universe in unity state..
27. Sun as the manifestation of solar universe range gets enveloped within Transcendental boundary because of the Transcendental dimensional order of origin of solar universe.
28. Solar universe acquires creative dimensional order because of the unity values flow from origin (7-space), manifest as creative

dimensional order (4-space as dimension fold) of manifestation layers (4, 5, 6, 7) as the creative dimensional order (4-space as dimension) itself is of spatial dimensional order as that 4-space and 2-space accept coordination along the manifestation layer (2, 3, 4, 5).

29. And as such the pair of manifestation layers (1, 2, 3, 4) and (2, 3, 4, 5) simultaneously coming to play.
30. It is because of this feature that the unity state existence phenomenon is coordinated along the organization format of 4 x 4 grid format as under

1	2	3	4
2	3	4	5
3	4	5	6
4	5	6	7

31. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of trans and to glimpse the unity values flow from pole star as origin source reservoir unifying the solar universe of Earth to Sun range.

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Follow Ganita Sutras format

for progressive evolutionary Intelligence
(Chase-Initiation Steps)

I

About Present Chase

1. Ganita Sutras manifest mental mathematics systems and processes. With it, the natural promise is, by Transcendence through this manifestation format, the values of progressive evolutionary intelligence field will comes into play. As such, the present study aims to glimpse this. Accordingly it is being approached as chase – initiation steps.
2. It is axiomatically been taken as that ‘Ganita Sutras’ text, as it is, is a complete scripture in itself. Further it also is being axiomatically accepted as that it is part of Vedic knowledge systems and processes.
3. Still further it two is being axiomatically accepted as that these Sutras being part of Vedic knowledge and system and same being complete scripture in itself as such the Transcendental origin source reservoir of soul syllable Om is always available for initiation and for the reach at thy synonym Parnava (Tasay Vachka Parnava).
4. It would be going to be like five syllable mantra (panch akshra mantra namah Sivah पंच अक्षर नम शिवाय) goes Transcendental as ओम नम शिवाय Om Namah Sivah.
5. This tag with Transcendental origin source reservoir as such provides transition for the four fold manifestation formats into five fold Transcendental formats and with it Transcendental (yoga / unison) formats come into play and the end fruit attainment comes to be in the form of ‘Parnava’ as Vachka ‘वाचकः’ / synonym of soul syllable ॐ Om.
6. As is the enlightenment of ‘Patanjal yoga darshan’.
7. With it Ganita Sutras text (एकाधिकेन पूर्वेण:.....)for its chase – initiation steps shall be getting tagged with Transcendental origin source reservoir and the text would emerge as ‘ॐ एकाधिकेन पूर्वेण:-----’
8. With availability of Transcendental origin source reservoir ॐ (Om), the

Transcendental code values for the individual alphabet letters, as well would become available.

9. Simultaneously it also would remain in point of focus that the soul syllable Om (ॐ) of creative format with Transcendental base and as such the whole range of values and virtues of creator's space (4-space) as well would be marking their presence .
10. The spatial order of creator's space (4-space) as such shall be surfacing artifice values 16 for soul syllable (ॐ).
11. Here it also would be relevant to note that this value is parallel to Transcendental code value for anunasik elongated ukara as anusara accepts TCV value 10 while elongated ukara accepts values 6 with these opening words about the present chase, the chase – initiation steps for progressive evolutionary intelligence along Ganita Sutras format, the follow up may be of the steps being reach at in the present study.

Progressive evaluation of Intelligence with pure and applied values of Ganita Sutras

- I** Introductory
- II** Knowledge
- III** Ved
- IV** Ganita Sutras
- V** Devnagri alphabet
- VII** Artifices of numbers and Dimensional frames of spaces
- VIII** Intelligence Evolution within consciousness domain
- IX** Ganita Sutra-1 and Ganita Upsutra – 1

**Progressive evaluation of Intelligence
with
pure and applied values of Ganita
Sutras**

I

I Introductory

1. Present phase is of the role of pure and applied values of Ganita Sutras, in progressive evaluation of intelligence.

II Knowledge

2. Pure knowledge has its inherent virtue to organize its own values.
3. This self organizing feature settles its formats, systems, processes and orders.
4. As such organized knowledge simultaneously unfolds pure and applied values. Such simultaneously emerging knowledge of its pure and applied values, that way leads to their complementary and supplementary nature.
5. This complementary and supplementary nature leads to their parallel manifesting for Transcendence from to be of self-referral orientations for attaining unity state.
6. Such unity state is going to be parallel to the inherent existence vibrant bliss of PURE KNOWLEDGE

III Ved

7. Ved (वेद) as per vid root (विद्) is of two fold values, namely (i) 'known' (ii) to know'.
8. Vedic scriptures, that way, simultaneously carry pure known

values as well as the features 'to know' and the 'known'.

9. With it, every Vedic scripture deserves to be approached for both facets of knowledge.
10. That way, whole range of pure state knowledge is unified whole. This makes it single wholesome domain.
11. 'Ved' as 'Vedas' and 'Vedas' as 'Ved' are just expressions of this 'wholesome domains'.
12. This wholesome domain being of whole range of values, may it be of unity state, self referral state, Transcendental state or of manifestation state. So the Purnam 'पूर्ण' value blissful vibrates in every bit of grain of knowledge domain.
मै पूर्णविद्.....

Sole syllable (om)

This is full. This is full. Full surfaces out of full. With full surfacing out of full, that what remains after surfacing as well as full.

13. As per this value of fullness, every scripture even being a part of another scripture, remains self-sustained complete scripture. This so, is vibrant in case of ganita sutras, being the self sustained complete scripture.

IV Ganita Sutrasगणित सूत्राणि:

14. Ganita Sutras as a self sustained scripture accepts sole syllable (Om) as source reservoir of values and its synonym Parnava 'प्रणवः' as the attainment value
15. As such Text begin as 'ॐ एकाधिकेन पूर्वेण' and its concludes as

‘गुणितसमुच्चयः समुच्चयगुणितः प्रणवः’

16. Text being Devnagri script as such the working acquaintance with Devnagri alphabet is going to be the first pre-requisite for proper comprehension and appreciation of the virtues, values and features of the virtues, values and features of its formats, systems and processes.

V Devnagri alphabet

स्वर

अ	इ	उ	ऋ	ॠ	ए	ओ	ऐ	औ
---	---	---	---	---	---	---	---	---

वर्गा

क्	ख्	ग्	घ्	ङ्
च्	छ्	ज्	झ्	ञ्
ट्	ठ्	ड्	ढ्	ण्
त्	थ्	द्व	ध्व	न्
प्	फ्	ब्	भ्व	म्

अन्तस्थ

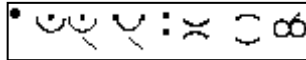
य्	र्य	ल्य	व्य
----	-----	-----	-----

उष्मण

श्	स्	ष्	ह्
----	----	----	----

यम

VISankhiya Yog Artifices Unison



17. Artifices unison is one concept which the vedic approach becomes decisive as the essence of processing initiation.
18. Vedanta, being the essence of Vedas, and Vedantra tri, Upanishads, Brahm Sutra and Geeta as essence of Vedanta and ahead Geeta as essence of Vedanta tri leads to Nishtha, the established processing process, being of two folds, namely Sankhiya Nishtha and Yoga Nishtha.

19. ‘Sankhiya’ being one of the aspect of Yoga, as such ‘Sankhiya Yog’ becomes the cultivating essence.
20. Sankhiya Nishtha presumes existence of geometric formats and avails artifices of numbers along geometric formats parallel to dimensional frames. On the other hand, Yoga Nishtha presumes existence of artifices of number was avails dimensional frame parallel to artifices of numbers.
21. With it unison of artifices of numbers and dimensional frames becomes the essence value which deserves to be imbibed.

VII Artifices of numbers and Dimensional frames of spaces

22. ‘Numbers and space’ are our most intimate concepts about which every one has ‘intuitive idea’. The intelligent cognition progressively surfaces with evolutionary unfolding of INTELLIGENC within Consciousness domain.
23. Numbers to artifices of numbers and

space to dimensional spaces are parallel cognition surfaces for whose chase, one may initiate oneself with a pair of triples of numbers and dimensional bodies, namely (i) 1, 2, 3 and (ii) lines, surfaces, solids)

24. This initiation, initially intuitively and thereafter cognitively lead to proper comprehension and appreciation of:
- i.1 as 1 space and line as 1 space body

- ii. 2 as 2 space and surface as 2-space body. And
- iii. 3 as 3 space and 'solid' as 3-space body'
- iv. And ahead 4 as 4 space and hyper solid 4 as 4 space body, and so on.

VIII Intelligence Evolution within consciousness domain

- 25. It is the consciousness field within which the intelligence progressively evolves. That being so, it the consciousness filed which is to be taken care of.
- 26. Consciousness to intelligence to knowledge are the state interlinking steps. One way to look at this pair of steps is of pure and applied values respectively.
- 27. These pure and applied values may be approached along Transcendental and manifested formats. These as well may be accepting approach as yoga Nishtha and Sankhiya Nishtha respectively.
- 28. For unison thereof, One shall sit comfortably and permit the transcending mind to dive deep in the consciousness field which stand created in the process and to glimpse and to be face to face with the way the consciousness impulses manifests intelligence processing surfaces for and as processing chase formats measures.
- 29. Processing chase measures' manifesting as artifices of numbers and dimensional frame and sustaining

our existence phenomenon within solar universe and even solar universe itself deserves to be imbibed for proper insight of reality of our solar universe existence as well as of our existence as and within human frame.

IX Ganita Sutra-1 and Ganita Upsutra – 1

‘ॐ एकाधिकेन पूर्वेण सूत्र १

आनुरूप्येण उपसूत्र २’

- 30. ॐ (Om) is sole syllable Braham.
- 31. (ॐ इति एक अक्षर ब्रह्म्)
- 32. The Transcendental code leads to (ॐ) being of value 16 (10 + 6)
- 33. TCV (ॐ) = TCV () + TCV (ऊ)
- 34. With it, ऊ as Transcendental source reservoir, unfold itself as artifice value 16 which manifests as value range 1 to 16 which manifests as value range 1 to 16, along which as value range 1 to 16, along which manifests text of Ganita Sutra-1, which presiding avails 16 letters:

एक् आ ध् इ क् ए न् अ
पुट् व् ए ण् अ

- 35. And then there are precisely 16 Sutras; accepting sequentially letters 1 to 16 of Ganita Sutras, to be the structural keys of Ganita Sutras 1 to 16 in sequence and order with first letter ‘ए’ holding structural key of Ganita Sutras itself.
- 36. Transcendental code values of 16 letters range comes to be

i ii iii iv v vi vii viii ix
64 2 2/2 ½ as 1, 24 6 8 1
xxi xii xiii xiv xv xvi
56 2 7 6 7 1

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Chase of Intelligence evolution

I Introductory

1. Intelligence evolution is of self formatting features.
2. Evolution as self formatting organization is of the nature of self interactive formats.
3. This results into zoom lines manifesting paragraphs.
4. The resultant sequential ordering in terms of points of zoom line as structured bits manifest mental blocks, the dissolutions of mental blocks permissible in terms of Transcendence through structured bits of zoom lines being the mental building blocks takes to progressive evolution of intelligence within the consciousness field.
5. With it the chase of intelligence evolution becomes the Discipline of transition from intelligence domain to consciousness field.
6. This chase, essentially being within spatial order creator's space (4-space) accepting solid order Transcendental origin, as such the Transcendence phenomenon itself becomes of two fold phases, the first of which takes us from intelligence domain to consciousness field and the second phase takes from consciousness field to hyper meta physical domains.
7. This organization format of progressive evolution of intelligence within

consciousness field runs parallel to the organization format of Ganita Sutras and as such pure and applied values of Ganita Sutras may be blissfully availed for inclination of progressive evolution of intelligence for young minds.

II Pure and applied values of Ganita Sutras

8. The pure and applied values of Ganita Sutras run parallel to each other.
9. For chase of pure and applied values of Ganita Sutras the sequential order of organization format of Ganita Sutras deserves to be followed and imitation, that way is to be from the very first letter of the very first Ganita Sutra itself namely 'ए' / sixth vowel which accept association of artifice 6 and geometric format of hyper cube 6 / 6-space.
10. This initiation with artifice 6 / hyper cube 6 / 6-space, as such, straight a way takes us to Sun / soul / Vishnu lok / real 6-space
11. One may have a pause here and sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of trans and to glimpse the role of 'Sun' in our solar universe and parallel to it the play of soul as human being.
12. The reach from first letter 'ए' / sixth vowel to the last 16th letter 'अ' / first vowel of Ganita Sutra-1, as such is chase of the features of Sun / soul / 6-space
13. One may have a pause here and take note that as the format and features of

first letter of the text of Ganita Sutra-1 leads to sequential unfoldment of the entire range of features of the organization format of Ganita Sutra-1 itself, likewise second to sixteenth letter of the text of Ganita Sutra-1 shall be respectively leading to the formats and features of Ganita sutras 2 to Ganita Sutras 16 in that sequence and order.

14. It would be blissful to have sequential evolutionary progression of intelligence domain parallel to the sequential organization formats of Ganita Sutras 1 to 16 in that sequence and order

III Ganita Sutra-1 and Ganita Upsutra-1

15. Ganita Sutras 'individual organization domains' that way manifest, each sutra domain being a complete organization in itself.
16. This feature, as such manifests transition domains for reach from given sutra domain to next Sutra domain.
17. This transition reach roles are played by Ganita Upsutras
18. It is this complementary and supplementary role of Ganita Upsutra which deserves to be comprehend and appreciated well as in terms of it the transition may be had from pure values to applied values of Ganita Sutras as well as a reach from applied values to pure values of Ganita Sutras.
19. It is the integrated text of Ganita Sutras and Upsutras which makes the

complete domain of pure and applied values of Ganita Sutras (including Ganita Upsutras)

20. As such the proper initiation for progressive evolution of intelligence may be had parallel to pure and applied values of Ganita Sutra (including Ganita Upsutras) by beginning the chase with integrated text of Ganita Sutra – 1 and Ganita Sutra – 2, which together avail $16 + 10 = 26$ letters range and with it artifice 26 becomes the basic artifice.
21. One may have a pause here and take note that the initiation with the text of Ganita Sutra – 1 as such is focuses upon artifice 6 as the basic artifice , while initiation with integrated text of Ganita Sutra and 1 and Ganita Upsutra-1 focuses upon artifice 26 as the basic artifice.
22. One may further have a pause here and take note that artifice 6 takes to 6-space / Sun / Vishnu lok while artifice 26 takes to 26 elements range of Vishnu lok / 6-space and there are 26 meters (chandras) which attain Vishnu lok
23. One may further have a pause here and take note that number 6 is the first perfect number.
24. Further as that geometric envelop of cube is of 26 structural components and total range of primes including one uptill 100 are 26.

Progressive evolution step

1. Format set up of points
 - a. Along line
 - b. Along surface
 - c. Within space
2. Sequential setting of values
 - i. In sequential increasing order
 - ii. In sequential decreasing order
 - iii. In sequential functional forms
 - a. As per define functions
 - b. Undefined functions
3. The symmetry
 - i. Of proportional values formats
 - ii. Of geometric formats seal
 - iii. Transcending manifestation
4. Transcending countable
 - i. Uncountable as unit
 - ii. Infinite in finite
 - iii. Zero as unit
5. Part as a whole
 - i. Point as a line
 - ii. Short line equal to long line
 - iii. Both thick and thin being full
6. Space
 - i. As a ray
 - ii. As a pair
 - iii. As expanding and squeezing
7. Birth – Death – Rebirth
 - i. Seed – Tree – Seed
 - ii. Ion Fire precedes both egg and hen
 - iii. Emergence of human frame from within human frame
8. Void
 - i. Void
 - ii. Devoid
 - iii. Devoided
9. Black matter
 - i. Black
 - ii. Half black
 - iii. Light
10. '1 as 2' and '2 as 1'
 - i. 1 as 2
 - ii. 2 as 1
 - iii. 1 as 2 and 2 as 1
11. Three dimensional frame
 - i. Three dimensional frame
 - ii. Split as a pair of three dimensional frames of half dimensions
 - iii. Synthesis of a pair of three dimensional frames of half dimensions.
12. (3, 7)
 - i. (3, 7)
 - ii. (37, 73)
 - iii. $(37+73) = 55 + 55$
13. Dimensional synthesis
 - i. $n \times n = (n + 2)$
 - ii. $(-n, -n) = (-n+2)$
 - iii. $(n, n, n) = 6$
14. Pentagon
 - i. Pentagon
 - ii. Pentagon within pentagon
 - iii. Pentagon within pentagon and infinitum
15. Sphere
 - i. Sphere
 - ii. Eco sphere
 - iii. New eco sphere
16. New
 - i. 42
 - ii. Spatial order
 - iii. NVF (Five) = NVF (Nine)
17. Triloki and Trimurti
 - i. Triloki
 - ii. Trimurti
 - iii. Triloki and Trimurti
18. Ved

- i. Ved as Vedas
- ii. (Rik, Yaju, Sam, Atharav)
- iii. Vedas as ved

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Intelligence and Ganita Sutras
**Progressive evaluation of
 Intelligence
 with pure and applied values of
 Ganita Sutras**

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- III Ved
- IV Ganita Sutras
- V Devnagri alphabet
- VII Artifices of numbers and Dimensional frames of spaces
- VIII Intelligence Evolution within consciousness domain
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Chase of Intelligence evolution
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Progressive evolution steps
 Progressive Evolution of Intelligence

Section – 1 Initiation lessons

Introductory

1. Progressive evolution of intelligence?
Is the phenomenon whose chase in itself is a very delicate Discipline as here it is the ‘transcending mind’ which shall be in a self interactive state with itself.
2. Intelligence marks its presence when it becomes vibrant at the core of consciousness. Till then, intelligence remains sub merged with the impulses of consciousness bits. It that way is

the sleep state of intelligence within consciousness bits.

3. The awakening state becomes the vibrant state and intelligence starts marking its presence loudly over the consciousness states. That way intelligence leaves behind consciousness as its sleep state.
4. Sleep state itself being of formats of deep sleep state and dream state, as such the intelligence emergence state is going to be phases and stages of dream state and deep sleep state.
5. Therefore the seeds of intelligence index of young minds shall be taking us to dream state and thereafter to ‘deep sleep state’
6. The deep sleep state and dream sleep state values shall be manifesting the intelligence index of awakening state.
7. This index in terms of its pre-manifesting phases and stages format of dream sleep state and deep sleep state are ultimately going to follow the Transcendence path of Transcendence through this awakening state manifested index of intelligence.
8. The Transcendence path in terms of its inherent self referral features shall be settling the progressive evolutionary progression of intelligence which shall be attaining unity state of growth for the young minds as fully grown up minds.
9. Ganita Sutras follow the Transcendence path and this being so the Ganita Sutras have great promise. Ganita Sutras text, as it is, from its first letter to the last letter, deserves to

be chased in that sequence and order. However Ganita sutras has a complete scripture shall be accepting sole syllable om as its Transcendental source reservoir and its synonym Parnava being the fruit of pure and applied values of Ganita Sutras.

10. With it beginning is to be with 'ॐ' while the ultimate attainment would be 'Parnava'

Initiation step

1. Initiation step of Transcendental chase of Ganita Sutras is to be along the format, features and values of 'ॐ' 'Om'
2. The formulation Om is of four components namely 'i' Bindu Sarovar 'ii' Ardh Matra 'iii' Tripundam and 'iv' Swastik pada
3. The Transcendence through these four component set up shall be leading to Transcendental base being the fifth fold of the four fold manifestation layer.
4. Bindu Sarovar / point reservoir is of the format of a structured point.
5. Transcendence through Bindu Sarovar is of the format of seven streams flow
6. This flow fulfills the gap between the first component (Bindu Sarovar) and second component (Ardh Matra).
7. The Transcendence as such from first component is of linear order (of seven stream) and its reach is only uptill the point beyond which linear order transit and transforms and comes within the domain of the second component (Ardh Matra)

8. It is going to be a reach by way of transition from line order to spatial order set up.

9. One may have a pause here and take note that the transition from linear order to spatial order is the transition from Triloki to creator's space (4-space)

10. Within spatial order creator's space (4-space), there is simultaneous availability of (1/2) and (2/1) unis.

11. The conceptual term 'Ardh Matra' accepts simple English rendering half units'.

12. One may further have a pause here and take note that the Transcendence ahead from within the second component, as such shall be amounting to a transition from spatial order to solid order.

13. One may further have a pause here and take note that within spatial order creative space, a three dimensional frame splits into a pair of three dimensional frame of half dimensions.

14. Still further it also would be relevant to note that 3-space accepts 7 geometries range.

15. Therefore the Transcendence from second quarter with it reach up till third quarter, as such is going to be of attainment of the split for seven streams as of three folds, with first fold of three streams leading toward east, the second fold of three stream leading towards west and third fold as central stream continuing flowing ahead and having reach uptill fourth quarter

16. One may have a pause here and take note that within creator's space (4-space), the tree dimensional frame split into a pair of three dimensional frames with common origin, which itself accepting synthetic format of pair of halves with common center and the process continuing ad-infinitum along the Transcendental path as compacitification format for the origin / center / middle flow line
17. Here it further would be relevnt to not that the square split into quadruple quarters while triple quarter synthise to integrate with them into four quarter as unmanifest quarter
18. It has this synthesis of three manifest quarter parallel to seven geometries range of two space into quadruple quarter format into nin geometries range of 4-spac shall be leading us to artifices pair (9, 7) which is parallel to organization of Ganit Sutra-1being pair of sub formulation i. ekadhikena and ii. Purvena availing precisely 9 and 7 letters formulations
19. One may have a pause here and take note that the synthesis of tripe quarters as of the format of quadruple quarters shall be bringing us back the start with position of Bindu Sarovar / Structured point being of a cyclic order making the Transcendental flow being of initiation point of creator's space (4-space) / Brahman domain of 9 streams sequentially leading to 9 streams to 7 streams, 7 streams to 3 streams and 3 stream to 1 stream as one flow path to manifest as the

Transcendence path and the other flow path as the Transcendence path as well being of same flow values being their because of the spatial order of creator's space (4-space).

20. The summation value $9 + 7 + 3 + 1 = 20$ as comparison to the summation $9 + 7 = 16$ is just an extension from four fold manifestation layers of vales 4×4 of five fold Transcendence range of value 5×4 .
21. One may further have a pause here and take note that the TCV (वेद) = 20
22. Still further it also would be note that NVF (letter) = NVF (creator) = 80 and NVF (spirit) = 100 and artifices pair (80, 100) as well as 16 , 20 and (4, 5) are of parallel format values
23. With it the promise of Ganita Sutras to attain values of the order of the Vedas is self evident being inherently there in the spirit of the letters of the text of Ganita Sutra
24. Still further it would be relevant to note that Vedas enlighten us as that 'रिचो अक्षरे प्रमेय व्योमन' that within Akshras (syllables) of richas (hymns) are vibrant Transcendental spaces.

*

वर्णमाला
Varanmala

1. The term 'वर्ण' Varan is of many features.
2. One of the meanings of word 'वर्ण' Varan is colour 'रंग'.

3. The word 'रंग' leads to the feature as that 'रू' is 'अंग' / organ.
4. Word 'वर्ण' Varan accepts meanings of features 'frame / envelope / class'. It is this enveloping classification feature, which as such plays its dominant role of settlement of letters as constituents of the alphabet format.
5. The word 'वर्णमाला' Varanmala, that way shall be accepting simple English rendering as 'enveloping garland'.
6. It is this feature of Sanskrit alphabet of Devnagri script for carrying frequencies of Vedic sounds, which deserves to be comprehended well for its full appreciation and proper imbibing to have desirable insight about the organization as well as about the working rules of Grammar of words compositions as formulations and for reaching at the pure and applied values of the knowledge Discipline as a speaking language in terms of the 'वर्णमाला' Varanmala (alphabet).
7. It would be blissful to note here itself as that the word composition 'वर्णमाला' Varanmala avails letters (i) व (ii) अ (iii) र (iv) ण (v) अ (vi) म (vii) आ (viii) ल (ix) अ, and that meanings of this formulation can be reached at in terms of sequential synthesis of the sound frequencies manifesting as these nine letters.

Letters as constituents

1. Each letter is constituent of the alphabet format.

2. Each letter is the creator.
3. As such the alphabet is the format of creator's.
4. Alphabet being the format of creator, as such alphabet becomes the format of features of the center of the sphere (of universe of existence).
5. The sphere of universe of existence, as such is the sphere of impulses / frequencies of impulses parallel to Vedic sounds.
6. As such each letter is manifested package of freeze frequencies bits of the universal frequencies format.
7. The self referral features of the Transcendental universe transcending manifested world makes each splinter to be of the order of the format and features of universe itself.
It is this value of alphabet and its constituent letters which deserves to be comprehended well and to be appreciated fully for complete imbibing to have blissful glimpse of the virtues of this range of values.

Reach from constituent letters to Alphabet format

1. The split up of the whole as parts and synthesis back of parts as the whole are the features whose chase shall be bringing us face to face with the format and features of alphabet format.
2. The feature of part itself being the whole is of such values and virtues of manifestation of Transcendental domains within creator's space (4-

space) and same deserves to be comprehended well and to be appreciated fully for proper imbibing of these values to glimpse the phenomenon and to have an insight about this phenomenon.

3. This shall be bringing us face to face with each letter of the alphabet being the 'creator'.
4. Alphabet as organization format of the center of the sphere and its constituent letters being of the format and features of 'creator', that way shall be leading us to the origin of 3-space accepting super imposition of the center of the sphere as representative regular body of 3-space and as domain fold of hyper sphere 3, shall be bringing us face to face with the values and virtues of this organization.
5. One may have a pause here and take note that (i) middle (ii) Center and (iii) Origin are the three features manifested existence whose chase shall be helping us have a reach from the integrated organization of alphabet and its letters to the distinct format and features of letters individually as well as collectively as alphabets itself.
6. Reach from origin to center and ahead from center to middle and further in reverse orientation, the reach from the middle to the center and ahead from center to origin deserves to be chased both ways for having proper insight about the organization format and features of alphabet as well as of its individual letters. As such the

initiation of such chase that way is to begin with the way alphabet letters stand coordinated and organized parallel to organization format of the alphabet itself.

Sequential coordination's of alphabet letters

1. One set of sequential coordination's of Sanskrit alphabet of Devnagri script emerge to be
 - (i) Vowels, consonants and yama letters
 - (ii) Consonants accept coordination as Varga consonants, Antsthas and Ushmanas.
 - (iii) Varga consonants stand coordinated along 5 x 5 matrix format of 5 rows and 5 columns
2. There are 9 vowels and these are sequentially coordinated and arranged as first to ninth vowel.
3. One feature of this coordination and arrangement of vowels is of format and features parallel to nine numerals range (of ten place value system).
4. The other feature of this coordination and arrangement is that its middle placement permits from its both ends of reach at fifth vowel being of middle placement and this makes this placement of additional features which distinguish it from others.
5. One may have a pause here and take note that the above two fold approach to the middle from pair of ends shall be splitting this range of 9 steps into a

pair of five steps each (1, 2, 3, 4, 5) and (9, 8, 7, 6, 5).

6. Further it be taken as that middle permits bend and it shall be leading us to 5 x 5 format.
7. Here it also would be relevant to note that the word 'bend' is of format 'B' End / '2 end' (s).
8. Here it also would be relevant to note that the word 'base' is composition of format 'B as E' / '2 as 5'
9. These features together with other features deserves to be chased for proper comprehension.
10. The 5 x 5 matrix format of 5 rows and 5 columns set ups would lead us to 5 x 5 grid zones whose centers coordination shall be leading us to 4 x 4 matrix / grid format such that the vertices of the outer grid shall be becoming the centers of the internal grid.
11. This shift from 5 x 5 coordination set up to 4 x 4 coordination set up shall be sequentially taking us firstly from nine vowels coordination to 25 varga coordination and thereafter to 16 remaining other letters coordination format of (4 anthstha letters, 4 ushmana letters and 8 yama letters).
12. One may have a pause here and take note that as 5 x 5 grid format leads to 4 x 4 grid format so ahead 4 x 4 grid format shall be leading us to 3 x 3 grid format.
13. One may further have a pause here and take note that this reach at 3 x 3 grid format shall be parallel to the format for the coordination and arrangement of 9 vowels which would

be just a transition and transformation from 9 steps long linear sequential coordination and arrangement parallel to numerals / numbers / artifices 1 to 9, to coordination and arrangement of numbers along the formats $1 \times 1 = 1 = 1 \times 2 = 2, \dots, 1 \times 9 = 9$.

14. This feature as such deserves to be comprehended well and to be appreciated fully for complete imbibing of these features to have complete glimpse for blissful insight about this organization Discipline.
15. Further it also would be relevant to note that $9 + 16 = 25$ and parallel to it $3^2 + 4^2 = 5^2$ and further parallel to it the format and features of a right angle triangle (3, 4, 5) deserves to be comprehended well and to be appreciated fully for complete imbibing to have proper glimpse of these features to have deep insight about this organization format.
16. One may further have a pause here and take note that the value of area of right angle triangle (3, 4, 5) comes to be 6 units and with it the triple (3, 4, 5) transit and transforms into quadruple (3, 4, 5, 6)
17. The summation value of the quadruple (3, 4, 5, 6) as $(3, 4, 5, 6) = 18$ leads us to the sequential reach in reverse orientation from 2^3 to 1^3 as coordination along 10 place value system with 2^3 at unit place and 1^3 at next place.
18. Still further it also would be relevant to note that the quadruple artifices (3, 4, 5, 6) are parallel to four fold manifestation layer (3, 4, 5, 6) of

hyper cube 5 accepting domain fold being the manifested Transcendental domain content within creator's space (4-space) having the potentialities to play the role of Transcendental origin (5-space as origin) of creator's space (4-space)

19. One may further have a pause here and take note that these features chase shall be bringing us face to face with Transcendental domain (5-space) being enveloped within creator's space (4-space as boundary) and simultaneously Transcendental domain (5-space) playing the role of Transcendental origin of creator's space (4-space as domain)
20. One may have a pause here and permit the transcending mind to continuously remain in prolonged sittings of deep trans and to blissfully glimpse how 4-space as creator as constituent letter shall be enveloping Transcendental domain as indeclinable syllables (Akshar) अक्षर. This organization as such leads to the coordination and an organization providing a reach for letters वर्ण varan to syllables अक्षर.

Anubandha (अनुबंध) To follow to be bound

1. Each letter is of values and virtues of the format and features of 'creator'.
2. As such it envelops / frames, classifies, regulates carries, flows and has a very big range. Of these it is Anubandha (अनुबंध) which is of the format and features of 'to follow to be bound'.

3. Conceptually it brings to focus the formats manifesting domain of the letter.

4. It is by following the manifested domain of the letter that its format creates its 'bound' / embankment.

5. It is like a flow of stream within its embankments with it stands focused flow range of content of domain within its enveloping frame.

6. It shall be bringing into focus the sequential framing of domains within domains and of frames within frames.

7. One such coordinations organization is of 14 Maheshwara Sutras coordinating 42 letters '9 vowels and 33 consonants'.

8. This way stand focused 14 Anubandha (अनुबंध).

9. This coordination organization of 42 letters as 14 Maheshwara Sutras in terms of 14 Anubandas organize 42 Pratayhara (प्रत्याहार) parallel to 42 sub streams of 14 streams flow focusing upon the stream flow feature of 42 letters.

10. These streams flow formats within manifested domains are of the format and features of domains spaces as regulated fly zones.

11. This 14 Maheshwara Sutras coordination of 42 letters (9 vowels and 33 consonants workable as 42 Pratayahara) in terms of 14 Anubandha (अनुबंध) are parallel to 7-space as unity space of hyper cube 7 format enveloped within 14 self referral envelops within creator's space (4-space)

12. One may have a pause here and take note that such coverage of 4-space together with the eternal enveloping features of 8 yama letters shall be leading us coverage range being parallel to the format and features of hyper cube 4 accepting domain boundary formulation $A^4 : 8B^3$.
13. One may have a pause here and take note that the 4-space in the role of dimension of 6-space while it would play the role of boundary of 7-space as 14 component shall be making it an organization of $14 \times 3 = 42$ constituents as that 4-space is enveloped within 3-space as its boundary
14. Further it also would be relevant to note that self referral boundary (6-space as boundary) of 14 components of unity state (7-space) as such shall be requiring precisely $7 \times 6 = 42$ coordinates.
15. Still further it also would be relevant to note that this set of coordinates would be the Transcendental coordinates, as much as that 5-space plays the role of dimension of 7-space and accordingly the dimension frame of 7-space is constituted by 7 Transcendental dimensions (5-space as dimension, 7 in number)

MAHESHWARA SUTRAS

01.	अ इ उ ण्	02.	ऋ लृ क्	03.	ए ओ इ.
04.	ऐ औ च्	05.	ह य व र ट	06.	ल ण्
07.	ज म ङ ण न म्	08.	झ भ ञ	09.	ष ढ ष ष्
10.	ज ब ग ड द श्	11.	ख फ छ ठ ध च ट त व्		
12.	क प य	13.	श ष स र	14.	ह ल्

प्रत्याहार तालिका

क्रम संख्या	सूत्र संख्या	वर्ण संख्या	प्रत्याहार
१	सूत्र १	अ	अ
२	सूत्र २	इ	इ
३	सूत्र २	उ	उ
४	सूत्र २	ऋ	ऋ
५	सूत्र ३	लृ	लृ
६	सूत्र ४	ए	ए
७	सूत्र ४	ओ	ओ
८	सूत्र ४	ए	ए
९	सूत्र ४	औ	औ
१०	सूत्र ५	ह	क
११	सूत्र ६	य	ख
१२	सूत्र ७	व	ग
१३	सूत्र ७	र	घ
१४	सूत्र ७	ल	ङ
१५	सूत्र ८	ज	च
१६	सूत्र ८	म	छ
१७	सूत्र ८	ड	ज
१८	सूत्र ८	ण	झ
१९	सूत्र ९	न	ञ
२०	सूत्र ९	झ	ट
२१	सूत्र १०	भ	ठ
२२	सूत्र १०	ष	ड
२३	सूत्र १०	ढ	ढ
२४	सूत्र १०	ध	ण
२५	सूत्र १०	ज	त
२६	सूत्र १०	ब	थ
२७	सूत्र ११	ग	द
२८	सूत्र १२	ड	ध

२६	सूत्र १२	द	न
३०	सूत्र १२	ख	प
३१	सूत्र १२	फ	फ
३२	सूत्र १३	छ	ब
३३	सूत्र १३	ठ	भ
३४	सूत्र १३	ध	म
३५	सूत्र १३	च	य
३६	सूत्र १३	ट	व
३७	सूत्र १४	त	र
३८	सूत्र १४	क	ल
३९	सूत्र १४	प	श
४०	सूत्र १४	श	ष
४१	सूत्र १४	ष	स
४२	सूत्र १४	स	ह
४३	सूत्र १४	ह	-

Twenty two visergas (विसर्ग) (specified creations)

1. Unity state within creator's space (4-space) is specified range of creations.
2. This specified range is of four folds of the formats of hyper cube 4, hyper cube 5, hyper cube 6 and hyper cube 7
3. Artifices quadruple (4, 5, 6, 7) is of summation value $4 + 5 + 6 + 7 = 22$
4. Sequentially summation values are (4, $4 + 5 = 9$, $4 + 5 + 6 = 15$, $4 + 5 + 6 + 7 = 22$)
5. The artifices quadruples (4, 5, 6, 7) and (4, 9, 15, 22) deserves to be chased

6. The artifices quadruple (4, 5, 6, 7) is parallel to four fold manifestation layer of hyper cube 6
7. The artifices quadruple = 4, 9, 15, 22 is of summation value $4 + 9 + 15 + 22 = 50$ which is parallel to the artifices range 1 to 50 of 50 letters (9 vowels, 33 consonants and 8 yama letters of devnagri alphabet.
8. Twenty two specific creations of unity range within creator's space (4-space) are as under :

उपसर्ग

Sr	Upsarg	Sr	Upsarg
१	प्र	१२	आ
२	परा	१३	नि
३	अप	१४	अधि
४	सम्	१५	अपि
५	अनु	१६	अति
६	अव	१७	सु
७	निस्	१८	उत
८	निर्	१९	अभि
९	दुस्	२०	प्रति
१०	दुर	२१	परि
११	ध्व	२२	डप

9. Each of these 22 specific creations deserves to be chased individually for comprehension of its format and features.
10. In addition there are 85 Transcendental creations, designated and known as anuwak (अनुवाक)
11. Artifice 85 accepts re-organization as $5 + 8 \times 10$ which is parallel to

fixation of Transcendental domain in terms of 85 solid coordinates of which 5 coordinates shall be fixing solid dimensional frame of Transcendental domain and remaining 80 coordinates shall be fixing solid boundary of creative boundary of Transcendental domain in its entirety.

12. These creations and specific creations $85 + 22 = 107$, a step ahead shall be making of exhaustive coverage of existence phenomenon parallel to fixation of the set up of 12 edges and 9 points (including origin) of cube as much as that $12 \times 9 = 108 = 107 + 1$.

Ascending and decending progressions

21. Progressions are essentially of two features namely 'आरोही क्रम' Arohi karam / Ascending order and 'अवरोही क्रम' Avrohi karam / decending order but those when get super imposed because of opposite orientations lead to format of features of mixed phases of ascending, decending or neutralized progressions.
22. The ascending progression reach would get expression parallel to (1, 2, 3, 4, 5) while the decending progression would get expression parallel to (1/1, 1/2, 1/3, 1/4, 1/5).
23. Along 5 x 5 matrix format, one such expression for mixed ascending and decending orders may be parallel to the following format

$$\begin{array}{ccccc} 1/1 & 2/1 & 3/1 & 4/1 & 5/1 \\ 1/2 & 2/2 & 3/2 & 4/2 & 5/2 \\ 1/3 & 2/3 & 3/3 & 4/3 & 5/3 \end{array}$$

$$\begin{array}{ccccc} 1/4 & 2/4 & 3/4 & 4/4 & 5/4 \\ 1/5 & 2/5 & 3/5 & 4/5 & 5/5 \end{array}$$

24. Devnagri alphabet as organization for its 25 consonants parallel to the format of 5 x 5 matrix format and as such these are designated 'वर्ग' varga / square consonants and each row is specified in terms of first letter and the row and the whole row becoming first letter 'वर्ग' varga / square.

Varga consonants

Row / letter	Varga	i	ii	iii	iv	v
First row	क वर्ग	क	ख	ग	घ	ङ
Second row	च वर्ग	च	छ	ज	झ	ञ
Third row	ट वर्ग	ट	ठ	ड	ढ	ण
Fourth row	त वर्ग	त	थ	द	ध	न
Fifth row	प वर्ग	प	फ	ब	भ	म

25. Here it would be relevant to note that square values permit expression along straight line format parallel too the approach for the middle from both ends as

$$1^2 = 0 + 1 + 0$$

$$2^2 = 0 + 1 + 2 + 1 + 0$$

$$3^2 = 0 + 1 + 2 + 3 + 2 + 1 + 0$$

$$4^2 = 0 + 1 + 2 + 3 + 4 + 3 + 2 + 1 + 0$$

$$5^2 = 0 + 1 + 2 + 3 + 4 + 5 + 4 + 3 + 2 + 1 + 0$$

26. Further the split of square into four quarter square, shall be taking us to extension of the set ups of quarter

squares into synthesized square as and by the range '1, 2, 3, 4, 5' to be extended as '1, 2, 3, 4, 5, 6, 7, 8, 9' and there would be a reach for organization range (1, 2, 3, 4, 5, 4, 3, 2, 1) along 9 steps long range as of summation value '1 + 2 + 3 + 4 + 5 + 4 + 3 + 2 + 1' = 5².

27. The 9 steps long range (1, 2, 3, 4, 5, 4, 3, 2, 1) permitting reach at the middle step value '5' from both ends and this format, amongst others is of following prominent features:
- i. Middle value permits reach from both ends
 - ii. From middle to both ends reach would be as a pair of flow lines of opposite orientations.
 - iii. the reach from middle to both ends shall be of the nature of neutralizing the values at the meeting point at the seat of middle of the range.
 - iv. The reach from middle to either end as a pair of streams of opposite orientations shall be making format for the middle of spatial format (a format accepting a pair of axes frame).
 - v. The first reach value for the middle being (0 and second reach value from middle to end points being of value '2' and artifices pair (0, 2) is parallel to the manifestation format (dimension fold, domain fold).
 - vi. The bend permissible at the middle of the range and super imposition of the end points is going to be parallel to a pair of faces format and features of 'surface'.
 - vii. The pairing of values (0, 0, 1, 1), (2, 2), (3, 3), (4, 4) and (5, 5), as such as per the dimensional synthesis mathematics shall be leading us to the values range (2, 3, 4, 5, 6, 7),
 - viii. This self referral range (2, 3, 4, 5, 6, 7), and parallel to it spaces range (2-space, 3-space, 4 - space, 5-space, 6-space, 7-space) starting with spatial order and reaching uptill unity order shall be leading to Brahman range (4, 5, 6, 7, 8, 9) / (4-space, 5-space, 6-space, 7-space, 8-space, 9-space) / (creator's space (4-space), Transcendental space, self referral space, unity space, 8 fold nature, nav braham.
28. One may have a pause here and permit the transcending mind to continuously remain in deep sitting of trans and to blissful glimpse the sequential progressive evolution of creator's space (4-space) unfolding as its
- i. Transcendental origin role along the format of fifth geometry (non negative / non positive geometry) as 5-space,
 - ii. self referral base role along the format of sixth geometry (first negative / first positive geometry) as 6-space,
 - iii. unity format role along the format of seventh geometry (second negative / second positive geometry) as 7-space,
 - iv. 8 fold manifestation space role along the format of eighth geometry (third negative / third positive geometry) as 8-space and

- v. finally the Brahman source reservoir role along the format of ninth geometry (fourth negative / fourth positive geometry) as 9-space
29. The resultant creative spirals are spatial order envelops of Transcendental domains flow manifesting as Transcendence path of self referral features which of their own take through 'unity state' to spatial order of reversal features of vertical set ups vis-à-vis the self reflecting horizontal set ups.
30. The horizontal set ups of reverse orientation pairings and vertical set up of reverse orientation pairing, together as a paired pairs of reverse orientation deserves to be chased to glimpse and have an insight of emergence of Brahman domains within creator's space (4-space).

Transition from 5 x 5 matrix format to 7 x 4 matrix format

1. The Transcendence from 5 x 5 matrix format to 7 x 4 matrix format is the attainment of transition from spatial order format to solid order format within creator's space (4-space) itself.
2. This chase is going to be of following steps
 - i. 5 x 5 matrix format is parallel to 5 x 5 grid zones format.
 - ii. The Transcendence at centers of grid zones is going to be a set up of $4 \times 4 = 16$ streams flow.

- iii. The horizontal format of 5 x 5 grid zones set up and $4 \times 4 = 16$ streams Transcendence flow at the centers of grid zones shall be of flow lines along the vertical plane.
- iv. Here it would be relevant to note that along a straight line, 5 points fix for linear units and 5 x 5 spatial grid points shall be fixing $4 \times 4 = 16$ grid zones. Therefore there would be precisely 16 Transcendence streams at the centers of 16 grid zones.
- v. Further here it also would be relevant to note that as along the Transcendence stream through the center of the grid zone there would be a flow for the entire grid zone, so the emerging volume would be of value $4 \times 4 \times 4$, which may be taken as a unit.
- vi. Further as that along the 4 x 4 matrix format stand organized consecutive quadruple manifestation layers:

1	2	3	4
2	3	4	5
3	4	5	6
4	5	6	7

- vii. One may have a pause here and take note that the above organization of 4 consecutive manifestation layers along 4 x 4 matrix format, infact is the set up of seven steps long unity state (1, 2, 3, 4, 5, 6, 7) /

(1-space, 2-space, 3-space, 4-space, 5-space, 6-space, 7-space)

viii. The summation value of unity range (1, 2, 3, 4, 5, 6, 7) comes to be $1+2+3 + 4 + 5 + 6 + 7 = 28$

ix. Further as that the summation values of above 4 consecutive manifestation layers leads to quadruple of artifices (10, 14, 18, 22) with grand summation value $10 + 14 + 18 + 22 = 74$ which constitute a reflection pair with artifice 47 (74, 47) of summation value $74 + 47 = 121 = 11 \times 11$, and all these features together shall be leading to a setting along the interval format having fixation in terms of triple artifice (23, 28, 23,) which shall be making Transcendence to the middle from both ends as six steps long flow strams (23, 24, 25, 26, 27, 28) and (28, 27, 26, 25, 24, 23)

a. The above Transcendence values self referral seat at the middle as of value 28 shall be the attainment whose chase is accepted as a transition from 5 x 5 set up to 7 x 4 set up and the same is taking us from the sett up of 5 x 5 varga consonants to the set up of 28 consonants accepting three additional letters along the in between (middle rows) of 5 x 5 format as under:

--	क	ख	ग	घ	ङ
श	च	छ	ज	झ	ञ
ष	ट	ठ	ड	ढ	ण
स	त	थ	द	ध	न
--	प	फ	ब	भ	म

Transition from 5 x 5 matrix format to 7 x 4 matrix format

3. The Transcendence from 5 x 5 matrix format to 7 x 4 matrix format is the attainment of transition from spatial order format to solid order format within creator's space (4-space) itself.
4. This chase is going to be of following steps
 - x. 5 x 5 matrix format is parallel to 5 x 5 grid zones format.
 - xi. The Transcendence at centers of grid zones is going to be a set up of $4 \times 4 = 16$ streams flow.
 - xii. The horizontal format of 5 x 5 grid zones set up and $4 \times 4 = 16$ streams Transcendence flow at the centers of grid zones shall be of flow lines along the vertical plane.
 - xiii. Here it would be relevant to note that along a straight line, 5 points fix for linear units and 5 x 5 spatial grid points shall be fixing $4 \times 4 = 16$ grid zones. Therefore there would be precisely 16 Transcendence

streams at the centers of 16 grid zones.

- xiv. Further here it also would be relevant to note that as along the Transcendence stream through the center of the grid zone there would be a flow for the entire grid zone, so the emerging volume would be of value $4 \times 4 \times 4$, which may be taken as a unit.
- xv. Further as that along the 4×4 matrix format stand organized consecutive quadruple manifestation layers:

1	2	3	4
2	3	4	5
3	4	5	6
4	5	6	7

- xvi. One may have a pause here and take note that the above organization of 4 consecutive manifestation layers along 4×4 matrix format, in fact is the set up of seven steps long unity state (1, 2, 3, 4, 5, 6, 7) / (1-space, 2-space, 3-space, 4-space, 5-space, 6-space, 7-space)
- xvii. The summation value of unity range (1, 2, 3, 4, 5, 6, 7) comes to be $1+2+3+4+5+6+7=28$
- xviii. Further as that the summation values of above 4 consecutive manifestation layers leads to quadruple of artifices (10, 14, 18, 22) with grand summation value $10+14+18+22=74$

which constitute a reflection pair with artifice 47 (74, 47) of summation value $74+47=121=11 \times 11$, and all these features together shall be leading to a setting along the interval format having fiction in terms of triple artifice (23, 28, 23,) which shall be making Transcendence to the middle from both ends as six steps long flow streams (23, 24, 25, 26, 27, 28) and (28, 27, 26, 25, 24, 23)

- a. The above Transcendence values self referral seat at the middle as of value 28 shall be the attainment whose chase is accepted as a transition from 5×5 set up to 7×4 set up and the same is taking us from the set up of 5×5 varga consonants to the set up of 28 consonants accepting three additional letters along the in between (middle rows) of 5×5 format as under:

--	क	ख	ग	घ	ङ
श	च	छ	ज	झ	ञ
ष	ट	ठ	ड	ढ	ण
स	त	थ	द	ध	न
--	प	फ	ब	भ	म

Devnagri script settlement within creator's space (4-space)

1. Devnagri script settlement format within creator's space (4-space) is essentially of two fold features, first as that the spatial dimensional order accepts grid frames and second as that the porous space created by spatial order within grid zones to permit Transcendence for solids / hyper solids / hyper cubes / hyper spheres.
2. The script so settle shall be making each letter being of the pair of features into Transcendence for the domains contents lumps through the grid zones which shall be parallel to the format of spatial order creator's space (4-space) (4-space) accepting Transcendental origin (5-space as origin).
3. With it the starting point for chase of settlement of Devnagri script of Sanskrit alphabet of vedic sounds would come to be the format of hyper cube 4

Vedic Mathematics Teacher's Course

1. Vedic Mathematics values and procedures to reach at the values make the Vedic Mathematics of distinct features because of which it deserves to be taken as Discipline whose chase instructions are to be distinctively learnt. Because of it, Vedic Mathematics deserves to be approached as distinct Discipline of knowledge.
2. Vedic systems successfully manage and cover whole range of knowledge as a single integrated wholesome Discipline. This wholesome approach to knowledge as a single Discipline, as a Discipline of instructions has made the subject a difficult one for those who are anxious to have segregated tabulation of values of particular features of knowledge of specific choice like that of Life and Death 'question's answers, potentialities and limitation of existence within and without Human Frame, distinct values of Earth and water together as a class and like that, and as a choice range of mathematics, black matter, pole star and all that.
3. Modern mind accustomed to approaching knowledge as set of distinct Disciplines as mathematics, physics, biology and all that and the Ancient Mind tuned to approaching whole range of knowledge as a single Discipline, as such have developed unbridged void which for the innocent young minds helplessness situation as for

overcoming of the same and outside help is must.

4. This void continued for centuries and even continues at present. Whether the knowledge is a single integrated wholesome Discipline or that the knowledge is a set of distinct Disciplines is continuing with us and appears to remain so for time to come. New hope and light for fulfilling the void in the form of Ganita Sutras brought to awakening state from their dormant state by Swami Bharti Krshna Tirtha Ji Maharaj is blissfully inspiring. However, our handling of the values of Ganita Sutras all these 50 years since the publication of the Vedic Mathematics Book in 1965 from the notes of Swami Ji, it reflects and gives the impression that unless and until some conscious attempt is not continued the possibility of Ganita Sutras going dormant again cannot be taken a pessimistic view.

5. In the words of Swami Bharti Krshna Tirtha Ji Maharaj

*“The Ganita
Sutras
(aphorisms)
apply to and*

*cover each
and every
part of each
and every
chapter of
each and
every branch
of
mathematics
(including
arithmetic,
algebra,
geometry-
plane and
solid,
trigonometry
-plane and
spherical,
cones-
geometrical
and
analytical,
astronomy,
calculus-
differential
and integral
etc.) In fact,
there is no
part of
mathematics,
pure or
apply, which
is beyond
their
jurisdiction;
The Sutras
are easy to
understand,
easy to apply*

*and easy to
remember;
and the
whole work
can be
truthfully
summarized
in word
'mental'!
Even as
regards
complex
problems
involving a
good number
of
mathematical
operations
(consecutivel
y or even
simultaneous
ly to be
performed),
the time
taken by the
Vedic
method will
be a third, a
fourth, a
tenth, or
even a much
smaller
fraction of
the time
required
according to
modern
Western
methods;*

*And in some
very
important
and striking
cases, sums
requiring 30,
50, 100 or
even more
numerous
and
cumbersome
'steps' of
working
(according to
the current
western
methods) can
be answered
in a single
and simple
step of work
by the Vedic
method! And
children of
even 10 or
12 Years of
age merely
look at the
sums written
on the
blackboard
(on the
platform)
and
immediately
shout out and
dictate the
answers from
the body of*

*the
 convocation
 hall (or other
 venue of the
 demonstration). And this
 is because,
 as a matter
 of fact, each
 digit
 automaticall
 y yields its
 predecessor
 and its
 successor!
 And the
 children
 have merely
 to go on
 tossing off
 (or reeling
 off) the digits
 one after
 another
 (forwards or
 backwards)
 by mere
 mental
 arithmetic
 (without
 needing pen
 or pencil,
 paper or
 slate etc.)!
 On seeing
 this kind of
 work
 actually
 being*

*performed by
 children, the
 doctors, the
 professors
 and other
 'big-guns' of
 mathematics
 are wonder
 struck and
 exclaim: 'Is
 this
 mathematics
 or magic?'
 And we
 invariably
 answer and
 say: 'It is
 both. It is
 magic until
 you
 understand
 it; and it is
 mathematics
 thereafter';
 and then we
 proceed to
 substantiate
 and prove
 the
 correctness
 of this reply
 of ours!
 As regards
 the time
 required by
 the students
 for mastering
 the whole
 course of*

Vedic mathematics as applied to all its branches, we need merely state from our actual experience that 8 months (or 12 months) at an average rate of 2 or 3 hours per day should suffice for completing the whole course of mathematical studies on these vedic lines instead of 15 or 20 years required according to the existing systems of the Indian and also of foreign universities.

Mathematical topics of Class 8, 9, 10, 11 and 12

Topic 1 Numbers system

Class 8 Chapter – 01 Rational Numbers

Class 9 Chapter – 01 Number systems

Class 10 Chapter – 01 Number systems

Topic 2 Polynomial and equations

Class 8 Chapter – 02 Linear equations in one variable

Class 9 Chapter – 02 Polynomials

Class 10 Chapter – 02 Polynomials

Topic 3 Square and Square roots

Mathematics of Class – 08

Chapter – 03 Understanding quadrilaterals

Chapter – 04 Practical geometry

Chapter – 05 Data handling

Chapter – 06 Squares and square roots

Chapter – 07 Cubes and cube roots

Chapter – 08 Comparing quantities

Chapter – 09 Algebraic expressions and identities

Chapter – 10 Visualizing solid shapes

Chapter – 11 Mensuration

Chapter – 12 Exponents and powers

Chapter – 13 Direct and inverse proportions

Chapter – 14 Factorization

Chapter – 15 Introduction to Graphs

Chapter – 16 Playing with Numbers

Mathematics of Class – 09

Chapter – 01 Number systems

Chapter – 02 Polynomials

Chapter – 03 Coordinate Geometry

Chapter – 04 Linear equation

Chapter – 05 Introduction to Euclid's geometry

Chapter – 06 Lines and angles

Chapter – 07 Coordinate Geometry

Chapter – 08 quadrilaterals

Chapter – 09 areas of parallelograms and triangles

Chapter – 10 circles

Chapter – 11 Constructions

Chapter – 12 Heron's Formula

Chapter – 13 Surface areas and volumes

Chapter – 14 Statistics

Chapter – 15 Probability

Mathematics of Class – 10

Chapter – 01 Real Number

Chapter – 02 Polynomials

Chapter – 03 pair of linear equations in two variables

Chapter – 08 Introduction to Trigonometry

Chapter – 09 some applications of Trigonometry

Chapter – 10 circles

Chapter – 11 Constructions

Chapter – 12 Areas related to circles

Chapter – 13 Surface areas and volumes

Chapter – 14 Statistics

Chapter – 15 Probability

Class -9

Appendix – 1 Proofs in
mathematics

Appendix – 2 mathematical
modeling

Chapter -10 Straight
Lines

Chapter -11 Conic
Sections

Chapter-12 Introduction
to three dimensional
geometry

Chapter -13 Limits and
Derivatives

Chapter -14

Mathematical reasoning

Chapter -15 Statistics

Chapter -16 Probability

Appendix-1 Infinite
Series

Appendix-2

Mathematical Modeling

Class – 10

Appendix – 1 Proofs in
mathematics

Appendix – 2 mathematical
modeling

Class -11

Chapter-1 Sets

Chapter-2 Relations
and functions

Chapter- 3
Trigonometric
functions

Chapter -4 Principle of
mathematical induction

Chapter -5 Complex
numbers and Quadratic
equations

Chapter -6 Linear
inequalities

Chapter -7
Permutations and
Combinations

Chapter -8 Binomial
Theorem

Chapter -9 Sequences
and Series

Class -12

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Conceptual Dictionary of School Mathematics

Before taking the assignment of writing Text Book of School Mathematics, it would be appropriate that there shall be available a conceptual Dictionary of School Mathematics being available with the Text Book Writers.

This conceptual dictionary of School Mathematics shall be playing the role of Guidelines frame within which the School Mathematics material is to shape itself and the text books to remain parallel to the comprehensions levels of the young minds aimed to be instructed. Let there not be a strain or a stretch for the innocence of young minds.

Mathematics as a Discipline of logic and reasoning and it also being the pre-requisite need for axiomatic set theoretic approach that the accepted

axioms for the given entities meant for mathematize organization are to be definite and precise. This being so 'each concept' being accepted to be included in the mathematical domain, naturally is to be fully comprehended for its complete imbibing and this being so everything is to be within a settled axiomatic frame to have sequential logical steps of reasoning to reach at the mathematical results.

In the context of 'number system' the beginning with the first count '1' and reach at the 'complex number', that way is going to be of first challenge which is going to be of 'conceptual domain'. Construction of further counts and the set of counting numbers and all that to be a mathematical learning through text book instructions as a classroom subject is to be kept in mind by the text book writers.

Shrimad Bhagwad Mahapuran

1. Shrimad Bhagwad Mahapuran is the scripture which is carrying the essence of end fruit of the wisdom and enlightenment of Vedas.
2. This is a complete devotional scripture of Brahman virtues flourishing as Virat pursha
3. The way Virat Purusha under its own Grace flourishes as and

within Purusha is being glimpsed here in the scripture.

4. Each Sadkha devoted to Virat Purusha glimpses and fulfills oneself with Brahman values and virtues expressing as Virat Purusha.

5. The scripture sequentially unfolds and takes through 12 Scandas of chapters range (19, 10, 33, 31, 26, 19, 15, 24, 24, 90, 31, 13).

6. This organization of Scripture as 12 Scandas and 334 Chapters is parallel to the organization of Transcendental boundary (5-space as boundary) of self referral domain (6-space).

7. This as such parallel to the manifested format of hyper cube 6 within creator's space (4-space).

8. With it the enlightenment about Virat Purusha is shared by Lord Brahma, creator the supreme with Devotees

9. The scripture in its integrity is availing the format of real 6-space.

10. The organization of scripture as 12 Scandas is parallel to organization of Transcendental boundary.

11. This organization is parallel to :

i. 5-space in the role of boundary of 6-space splitting into 12 components

ii. Further it is parallel to the organization of Dwadash Adityas (12 suns)

iii. Still further it is parallel to the organization of Dwadash lingam

12. The organization of 12 components of Transcendental boundary as 334 chapters is parallel to the split of a three dimensional frame and its creative origin as a pair of three dimensional frames and organizing parallel to artifice 334.

13. The chase of this organization sequentially is to be of 12 steps of artifices values range (19, 10, 33, 31, 26, 19, 15, 24, 24, 90, 31, 13)

Artifice value (19, 10, 33, 31, 26, 19, 15, 24, 24, 90, 31, 13)

14. The split of a sphere into a pair of hemispheres accepts placement values triples (17, 18, 19) with artifice value 18 for placement of the center of the sphere and artifices pair (17, 19)

being the pair of placements values of pair of hemispheres.

15. With it the range of numbers of chapters of first scandal as 19 chapters stands settled as per the above organization format for the split of a sphere into a pair of hemi-spheres.

Artifices 10

16. It would be relevant to note that dimensional synthesis of pair of solid dimensions synthesizes value 5 parallel to Transcendental domain (5-space as domain).

17. The Transcendental domain remains wrapped within creative boundary (4-space) of 10 components.

18. One may have a pause here and take note that the split of sphere as a pair of hemispheres leads to a pair of three dimensional frames while the origin stands isolated with placement at middle of the organization.

19. It would further be relevant to note that the placement value of center being 18 and further as artifice 18 permit re-organization as $18 = 3 + 4 + 5 + 6$ parallel to four fold manifestation layers (3, 4, 5, 6)

of hyper cube 5 with 5-space content manifesting Transcendental domain (5-space as domain) wrapped within creative boundary (4-space as boundary).

20. These features as such shall be sequentially leading to artifices range (19, 10, 33 and ahead to a solid dimensional order (3-space in the role of dimension) while 3-space as cube as its representative regular body and cube itself is a set up of 31 structural components (12 corner points, 8 corner points, 12 edges, 6 surfaces, 1 volume, 3 axes and 1 origin)

21. One may have a pause here and have a fresh look at the set up of the cube and it would come to focus that the geometric envelope of cube is synthesized in terms of 26 components (8 corner points, 12 edges and 6 surfaces).

22. One may have a pause here and take note that there are precisely 26 prime including one uptill 100

23. Still further as that there are 26 meters / chandas for a reach up till Sun .

24. Further there are precisely 26 sporadic groups/
25. There are 26 elements of Vishnulok
26. With it the organization of fifth scandh as 26 chapters stands settled accordingly
27. One may have a pause here and take note that the reach for the sixth component of Transcendental boundary of self referral domain is to be as per the re-application of the Transcendental measuring rod (measuring rod of 5-space).
28. With this re-application the startwith organization value of first scandal as 19 will be available for the value of six scandal as well
29. One may have a pause here and take note that the first of the organization namely (19, 10, 33, 31, 26, 19) stands covered
30. A step ahead is to be of the value of 5 step long Transcendental measuring rod reach as (119, 18, 17, 16, 15) which is going to be uptill value 15 which becomes the organization value of seventh scanda.
31. One may have a pause here and take note that the 7-space accepts $2 \times 7 + 1 = 15$ geometries range
32. Further as that artifice 15 permit re-organization as $15 = 1 \times 3 \times 5$ which is parallel to the dimensional order of 5-space
33. One may have a pause here and take note that artifice 15 further permit re-organization as $15 = 3 \times 5 = (4 - (-1)) \times 4 + 1$.
34. The next sequential step ahead of value $(4-1) \times 4 + 1$ comes to be $(5-1) \times (5+1) = 24$
35. One may further have a pause here and take note that the transition from artifice 7 to artifice 8 and parallel to it the transition from seventh scanda to 8 scanda as such is going to be the transition from linear order to spatial order and as such the sequential steps ahead of value 15 shall be the pair of values 24, 24.
36. With it the organization of 8th and 9th scandal stand settled simultaneously parallel to values 24 and 24
37. One may have a pause here and take note that the $24 + 24 = 48 = 2 \times 4 \times 6$, which is parallel to the dimensional equivalence of the dimensional order of 6-space.

38. This attainment as such, shall be leading ahead to value $15 \times 6 = 90$.
39. One may have a pause here and take note that the $90 = 45 + 45$ while $45 = 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9$
40. One may have a pause here and take note that the artifice 90 permit organization as $90 = 46 + 44$ which is parallel to artifices pair format (46, 44) which is parallel to 'domain, dimension' format, with its dimensional value 44 permits its re-organization as a reflection pair of artifices pair (31, 13).
41. These features of organization of 12 scandas as 334 chapters deserves to be comprehended well and to be appreciated fully to imbibe these values and virtues to glimpse the organization format of enlightenment of the order of Virat Pursha.
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