Index of write ups notes of Vedic Mathematics of Dr. S. K. Kapoor

01

Hyper cube features

CONTENTS-

Table-0

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1	3	3 space	H3 (10)	h3 (11)	D3 (4)
2	7	7 space	H7 (26)	h7 (27)	D7 (20)
3	5	5 space	H5 (18)	h5 (19)	D5 (12)
4	2	2 space	H2 (6)	h2 (7)	D2 (0)
5	8	8 space	H8 (30)	h8 (31)	D8 (24)
6	4	4 space	H4 (14)	h4 (15)	D4 (8)
7	1	1 space	H1 (2)	h1 (3)	D1 (-4)
8	1	1 space	H1 (2)	h1 (3)	D1(-4)
9	6	6 space	H6 (22)	h6 (23)	D6 (16)
10	7	7 space	H7 (26)	h7 (27)	D7 (20)
11	1	1 space	H1 (2)	h1 (3)	D1 (-4)
12	1	1 space	H1 (2)	h1 (3)	D1 (-4)
13	1	1 space	H1 (2)	h1 (3)	D1 (-4)
14	9	9 space	H9 (34)	h9 (35)	D9 (28)
15	1	1 space	H1 (2)	h1 (3)	D1 (-4)
16	8	8 space	H8 (30)	h8 (31)	D8 (24)
17	4	4 space	H4 (14)	h4 (15)	D4 (8)
18	1	1 space	H1 (2)	h1 (3)	D1 (-4)
19	1	1 space	H1 (2)	h1 (3)	D1 (-4)
20	9	9 space	H9 (34)	h9 (35)	D9 (28)

Table-1

C-1	C-2	C-3	C-4	C-5
1	3	3		
2	7	10		
3	5	15		
4	2	17		
5	8	25		
6	4	29		
7	1	30		
8	1	31		
9	6	37		
10	7	44		
11	1	45		
12	1	46		
13	1	47		
14	9	56		
15	1	57		
16	8	65		
17	4	69		
18	1	70		
19	1	71		
20	9	80		

Table-2

C-1	C-2	C-3	C-4	C-5	C-6
1	3	3,7	4-6	15	15
2	7	7,5	6	6	21
3	5	5,2	4-3	7	28
4	2	2,8	3-7	25	53
5	8	8,4	7-5	18	71
6	4	4,1	3-2	5	76
7	1	1,1	0	0	76
8	1	1,6	2-5	14	90
9	6	6,7	0	0	90
10	7	7,1	6-2	20	110
11	1	1,1	0	0	110
12	1	1,1	0	0	110
13	1	1,1	0	0	110
14	9	9,1	8-2	35	145
15	1	1,8	2-7	27	172
16	8	8,4	7-5	18	190
17	4	4,1	3-2	5	195
18	1	1,1	0	0	195
19	1	1,9	2-8	35	230
20	9	9,3	8-4	30	260

Table-3

C-1	C-2	C-3
1	3	3 space/hypercube-3
2	7	7 geometries of 3 space/7 versions of hypercube 3
3	5	(3,5)/solid order 5 space
4	2	Solid dimensional frame split in a pair of 3 dimensional frames of half dimensional
5	8	Split of cube as 8 subcubes
6	4	Release of 4 space origin
7	1	First dimension of 4 space
8	1	Second dimension of 4 space
9	6	(4, 4) = (6)
10	7	7 space As origin of 6 space
11	1	First dimension of 4 space
12	1	Second dimension of 4 space
13	1	Third dimension of 4 space
14	9	9 geometries of 4 space/9 versions of hypercube 4
15	1	First dimension of 5 space
16	8	(5,3) / 5+3, super in position of solid dimension upon transcdental (5 space) domain
17	4	4 space as origin of sold dimension
18	1	Second dimension of 5 space
19	1	Third dimension of 5 space
20	9	(5,3,1)/5+3+1=9, 5 space as domain 3 space as dimension, 1 space as dimension of dimension.

Table-4

C-1	C-2	C-3	C-4	C-5	C-6
1	H1	(-1,0,1,2)	2	2	H1
2	H2	(0,1,2,3)	6	8	H1-H2
3	H3	(1,2,3,4)	10	18	H1-H3
4	H4	(2,3,4,5)	14	32	H1-H4
5	H5	(3,4,5,6)	18	50	H1-H5
6	H6	(4,5,6,7)	22	72	H1-H6
7	H7	(5,6,7,8)	26	98	H1-H7
8	H8	(6,7,8,9)	30	128	H1-H8
9	H9	(7,8,9,10)	34	162	H1-H9
10	H10	(8,9,10,11)	38	200	H1-H10
11	H11	(9,10,11,12)	42	242	H1-H11
12	H12	(10,11,12,13)	46	288	H1-H12
13	H13	(11,12,13,14)	50	338	H1-H13
14	H14	(12,13,14,15)	54	392	H1-H14
15	H15	(13,14,15,16)	58	450	H1-H15
16	H16	(14,15,16,17)	62	612	H1-H16
17	H17	(15,16,17,18)	66	678	H1-H17
18	H18	(16,17,18,19)	70	712	H1-H18
19	H19	(17,18,19,20)	74	786	H1-H19
20	H20	(18,19,20,21)	78	864	H1-H20

Table-5

C-1	C-2	C-3	C-4	C-5	C-6
1	H1	(-1,0,1,2)	$A^1:2B^0$	1x2=2	2
2	H2	(0,1,2,3)	$A^2:4B^1$	2x4=8	10
3	H3	(1,2,3,4)	$A^3:6B^2$	3x6=18	28
4	H4	(2,3,4,5)	$A^4:8B^3$	4x8=32	60
5	H5	(3,4,5,6)	$A^5:10B^4$	5x10=50	110
6	H6	(4,5,6,7)	$A^6:12B^5$	6x12=72	182
7	H7	(5,6,7,8)	$A^7:14B^6$	7x14=98	280
8	H8	(6,7,8,9)	$A^8:16B^7$	8x16=128	408
9	H9	(7,8,9,10)	$A^9:18B^8$	9x18=162	570
10	H10	(8,9,10,11)	$A^{10}:20B^9$	10x20=200	770
11	H11	(9,10,11,12)	$A^{11}:22B^{10}$	11x22=242	1012
12	H12	(10,11,12,13)	$A^{12}:24B^{11}$	12x24=288	1300
13	H13	(11,12,13,14)	$A^{13}:26B^{12}$	13x26=338	1638
14	H14	(12,13,14,15)	$A^{14}:28B^{13}$	14X28=392	2030
15	H15	(13,14,15,16)	$A^{15}:30B^{14}$	15X30=450	2780
16	H16	(14,15,16,17)	$A^{16}:32B^{15}$	16X32=512	3292
17	H17	(15,16,17,18)	$A^{17}:34B^{16}$	17X34=578	3870
18	H18	(16,17,18,19)	$A^{18}:36B^{17}$	18X36=608	4478
19	H19	(17,18,19,20)	$A^{19}:38B^{18}$	19X38=722	6200
20	H20	(18,19,20,21)	$A^{20}:40B^{19}$	20X40=800	7000

Table-6

Distinct features of spatial order vis-à-vis linear order

Sr.No.	Features	Linear Order	Spatial Order
1		**1**	**2**
2		**1 space**	2 space
3		**Line**	Surface
4		**Linear Axis**	Spatial Axis
5		**Hypercube-1**	Hypercube-2
6		**Interval**	Square
7		**Length**	Area
8		**1^3**	2^3
9		**Triple Linear Axis**	Quadruple Spatial Axis
10		**Linear Order 3 space**	Spatial Order 4 space
11		**1 as 1**	2 as 1 and 1 as 2
12		**7 versions of hypercube 3**	8 solid boundaries components of hyper cube 4
13		**7 geometries of 3 space**	9 geometries of 4 space
14		**1+1 = 2, 1 x 1 = 1**	2+2=4=2x2
15		**Negative dimension of dimension of 3 space**	Zero dimension of dimension of 4 space
16		**Infinite points format**	Infinite lines format
17		**D_1= (1,-1,-1,-3)=(-4)**	D_2=(2,0,0,-2)=(0)
18		**(1,3,6,10,15,21,---)**	(2,4,6,8,10,12,----)
19		**H1=(-1,0,1,2)=2**	H2=(0,1,2,3)=6
20		**H2+D1=H1**	H2+D2=H2

Table-7

C-1	C-2	C-3	C-4	C-5	C-6
1	3	3 space	H3 (10)	h3 (11)	D3 (4)
2	7	7 space	H7 (26)	h7 (27)	D7 (20)
3	5	5 space	H5 (18)	h5 (19)	D5 (12)
4	2	2 space	H2 (6)	h2 (7)	D2 (0)
5	8	8 space	H8 (30)	h8 (31)	D8 (24)
6	4	4 space	H4 (14)	h4 (15)	D4 (8)
7	1	1 space	H1 (2)	h1 (3)	D1 (-4)
8	1	1 space	H1 (2)	h1 (3)	D1(-4)
9	6	6 space	H6 (22)	h6 (23)	D6 (16)
10	7	7 space	H7 (26)	h7 (27)	D7 (20)
11	1	1 space	H1 (2)	h1 (3)	D1 (-4)
12	1	1 space	H1 (2)	h1 (3)	D1 (-4)
13	1	1 space	H1 (2)	h1 (3)	D1 (-4)
14	9	9 space	H9 (34)	h9 (35)	D9 (28)
15	1	1 space	H1 (2)	h1 (3)	D1 (-4)
16	8	8 space	H8 (30)	h8 (31)	D8 (24)
17	4	4 space	H4 (14)	h4 (15)	D4 (8)
18	1	1 space	H1 (2)	h1 (3)	D1 (-4)
19	1	1 space	H1 (2)	h1 (3)	D1 (-4)
20	9	9 space	H9 (34)	h9 (35)	D9 (28)

Table-8

C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13
1	Sutra-13	1	7	20	80	496	480	221	280	600	1280	3465
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Table-9

C-1	Trans Sopan	Features
1	Shiv	Transcendental lordship. Five head lord with three eyes in each head. He has 10 long beautiful arms. Within cavity of his heart is the seat of self referral lord Vishnu. The idle of lordship manifests within creature's space (4 space). The features of idol of lordship are of format of hyper cube – five, the representative regular body of 5 space in 4 space.
2	Ardhnareshwar	Ardhnareshwar. The simple rendering of formulation Ardhnareshwar is half man, half woman. It is the Sathapatya format of 5 space domain as a pair of half 5 space doman. TCV (Ardhnareshwar) = 43 = 22+21 is parallel with TCV (Purav) + TCV (Pashchim) = TCV (Brahmand).
3	Shiv Parivar	Shiv Parivar (transcendental family of transcendental lord shiv had goddess Parwati). Ganesh, sakamad and Santoshi are the children of this transcendental family. Kailash Parvat is the transcendental home of this family.
4	RadhaKrishan	RadhaKrishan are the self referral eternity. The transition from the transcendental phenomena to the self referral phenomena is the transition from transcendental lord and transcendental goddess into self referral god and self referral goddess.
5	PanchMukhiHununan	PanchMukhi Hanuman is incarnation of transcendental lordship.
6	Ram Bhagat Hanuman	Ram Bhagat Hanuman is of self referral transcendental phenomena.
7	Ganesh	Lord Ganesh is the lord of Ganas. He is the lord of whole range of manifested creations, as well as of transcendental Ganas.
8	Chatarbhuji	Chaturbhuji Devi is the goddess of whole range of manifested creations.
9	Asthbhuji	Asthbhuji Devi is the goddess of whole range of manifested creations as well as the creations of manifested creations of transcendental base.
10	Sada Shiv – Parwati	Sadashiv and Parwati are the eternity.

Table-10

C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	C-14	C-15	C-16	C-17	C-18	C-19	C-20
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Cartesian Product	Geometrical Space	Hypercircles	Measurement of unit hypercircles where dy/dx=-x/y
R^4	4 Space	$X^2_1+X^2_2+X^2_3+X^2_4=1$	2π
R^5	5 Space	$X^2_1+X^2_2+X^2_3+X^2_4+X^2_5=1$	$8/3\pi^2$
R^6	6 Space	$X^2_1+X^2_2+X^2_3+X^2_4+X^2_5+X^2_6=1$	π^3
R^7	7 Space	$X^2_1+X^2_2+X^2_3+X^2_4+X^2_5+X^2_6+ X^2_7=1$	$16/15\pi^3$
R^8	8 Space	$X^2_1+X^2_2+X^2_3+X^2_4+X^2_5+X^2_6+ X^2_7+ X^2_8=1$	$1/3\pi^4$

$X^2_1+X^2_2+X^2_3+X^2_4+X^2_5+X^2_6+ X^2_7+ X^2_8=1$

Table-12

C-1	C-2	C-3
1	1π	3.1415927
2	2π	.2831853
3	4π	.1256371
4	$2\pi^2$	.19739209
5	$8/3\pi^2$	.26318945
6	$2\pi^3$	.31006277
7	$16/15\pi^3$	.330733629
8	$1/3\pi^4$	.32469697
9	$32/105\pi^4$	.2968658
10	$1/12\pi^5$	.2550164
11	$64/945\pi^5$	.20725143
12	$1/60\pi^6$	.16023153
13	$128/10395\pi^6$	.11838174
14	$1/360\pi 7$	.83897034
15	$256/135135\pi^7$	.57216492
16	$1/2520\pi^8$	.3765290
17	π	.2396788
18	π	.1478626
19	π	.44290821
20	π	.0258

Table-13

C-1	C-2
1	Wrigved-Mandal 1 – Sukhta 164 – Mantra 1 (i) Mahatal (ii) Rasatal (iii) Atal (iv) Sutal (v) Vital (vi) Talatal (vii) Patal (i) Bhu (ii) Bhava (iii) Swaha (iv) Maha (v) Jana (vi) Tapa (viii) Sapta (i) Vaman (ii) Ashan (iii) Dhrit (iv) Presth (i) Nabhi (ii) Rita (iii) Dhrit (i) Element (Aa) (ii) Element (Ka) (iii) Element (Na) (i) King Bali (ii) Vaman Dev (i) Values pair (7,3) and (3,6) (i) Concept: Sadbraham (ii) Vishnu-Vaman (iii) King Bali (i) Source reservoir (ii) Nucleous (iii) Flow fromNucleous and folds of in flow field. (i) Composit (ii) Automic (Anu) Structure of Sathapatya (geometric format) of 6 space with 7 space as origin
2	7 space as origin of 6 space. The dimensional frame of 6 space is of value 2 x 4 x 6 = 48. A step ahead value 49=7x7. The values pair (48, 49) is of the organization of double digit numbers 48 of 7 place value system accommodated by 6 x 8 grid and value 49 is the value of 1 triple digit number of 7 place value system. The formulation Rath TCV 10 and formulation chakra TCV 6 and formulation Ashuv TCV 11, formulation Nabhi TCV 20 and formulation bhuvan TCV 28 and formulation Vishva TCV 19, together lead to structural components of Sathapatya of 7 space.
3	Sat chakra with (7 eternal circuits). A^N : 2N B^{N-1}, N = 1, 2, 3, 4, 5, 6, 7. These together as hyper cubes 1 to 7 constitutes a Sathapatya measuring rod of 7 space.
4	Flow of shad chakras (6 eternal circuits) along sapt chakras (7 eternal circuits) format is to be glimpsed for comprehension of existence phenomenon of life within manifested body frames.
5	Here the urge to know is : How this manifested existence phenomenon is of unmanifest transcendental base of 7 steps long setup.
6	Intensified urge is, as to how the manifested shad chakras format is being sustained but by unmanifest for (birthless phenomenon of the element (Aa)/"One".
7	This phenomenon of manifested forms sustenance by unmanifest transcendental base is the transcendental features of the manifested creations. The transcendental base comes into existence of its own for the manifested creations because of transcendental origin of the creator the space. It is this feature which is responsible for transition for the static state universe in to dynamic state universe.
8	Formulations Mata TCV 17, Formation Pita TCV 13, Formulation Rita TCV9, Formulations GardhTCV 15, are the basic frame constituents of the transition bridging phenomenon for the manifested creations to be of transcendental base.
9	In the process of transition for the manifested creations to acquire transcendental base, there happens a transformation for element (Aa)

	of the 3 folds and thereby there happens transformation for 3 folds (Aa) into elements (Ka) in Vishva, TCV Vishav 19.
10	**As a result this happens to be the phenomenon of element (Na). It is transcendental phenomenon of Vishva within transcendental base with paramvyon, TCV 44.**
11	**It is of frame of 12 components, as A^6 : 12 V^5.**
12	**It is of manifested format of hyper cube 5 in 4 space of 4 folds (3, 4, 5, 6) having extension as of 5 folds (3, 4, 5, 6, 7) of reach uptil seventh Chakra.**
13	**It is this Sathapatya (geometric format) of 7 space of transcendental order (5 space as dimension) which deserve to be comprehended as of element (Na).**
14	**This is a face and stage of further transition for self referral 6 space dimensional order. It is the transition of Surya (6 space domain) of its static state into dynamic stage.**
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Table-14

SaklaWrigvedSahita

C-1	C-2	C-3
1	*Mandal*	*10*
2	**Ashtak**	**8**
3	**Adhayaya**	**64**
4	**Anuvak**	**85**
5	**Sukta**	**1020**
6	**Varga**	**2028**
7	**Richa**	**10552**
8	**UnmanifestAkshras**	**34735**
9	**Manifest Akshras**	**3,97,265**
10	**Akshra**	**432000**

SPATIAL ORDER FEATURES OF FOCUSED ATTENTION

1. **Creator (4 Space) is of spatial order.**

2. **2 Space contents manifests within 4 space, as of zero order, as**

   D2 = (2, 0, 0, -2) = 0

3. **2 Space being of zero order, hyper cube 2/square/surface is of a pair of faces of opposite orientation (2, -2).**

4. **Hyper cube 2 is of 4 folds (0, 1, 2, 3) of submission value (6), which is parallel with TCV Chakra and further it is first perfect number accepting triple proper devisers (1,2,3) of submission value 1 + 2 + 3 = 6.**

5. **The uniqueness of first perfect number (6) is that in this case only, the sum of proper devisers of perfect number is equal to the product of proper devisers, viz. 1 +2 + 3 = 1 x 2 x 3.**

6. **Within four space, not only the addition add multiplication get super imposed but also the pair of opposite orientation as well get super imposed in distinguishably as its spatial order is of features :**

   2+2 = 4 = 2 x 2 = (-2) x (-2)

7. **But the proper devisers of (6), namely, (1,2,3) uniquely maintained individuality of orientation for addition and multiplication operations, as :**

   (i) 1+2+3 = 6 = 1 X 2 X 3

   (ii) (-1)+(-2) + (-3) = (-6) = (-1) x (-2) x (-3)

8. **While this happening within creator's space (4 space) because of spatial order, the orientation of creative (4 space) order self referral (6 space), the orientation of 6 space domain get super imposed in distinguishably, because of which the dimensional synthesis values for triple positive order dimensions and triple negative order dimensional, in both cases, are of same synthesis value (6) and the complete tabulation of dimensional synthesis of same order, may it be, positive, negative or zero, accept tabulation as under:**

9. **Spatial order, simultaneously successfully handles domains within boundary folds. It is with adaptation of this Sathapatya (geometric format), vedic mathematics systems acquire unique features, some amongst them are of following focused attention:**

   (i) Pair of distinct generic units 2 as 1; and (1 as 2) lead to (1/2) as working units.

   (ii) There emerges a transition from single digit numbers mathematics to double and bigger digits numbers mathematics.

   (iii) Numerous (1, 2, 3, 4, 5, 6, 7, 8, 9) get replaced by (1, 2, 3, 4, 5, -4, -3, -2, -1).

   (iv) Ten place value system becomes of Sathapatya (geometric format) of creative (4 space) boundary of transcendental (5 space) domain.

The nine versions of hyper cube 4 as geometric bodies of 9 geometries of 4 space play the role of 9 numeral of 10 place value system of this Sathapatya (geometric format).

(v) Sathapatya (geometric format) of 519 letters and 46 words composition of text of Vedic Ganita Sutras as value 519 + 46 + 565, goes parallel with the transcendence format of transcendence of 6 space origin of 5 space doman, as a result, splitting into a pair of 5 space domain and manifesting (565).

(vi) Sathapatya (geometric format) of spatial order (2 spaces dimensions) transforms values arrange (1,2,3,4,5,6, ….) into (1x1, 1x2, 1x3, 1x4, 1x5, 1x6 …..) with it the primes get tammed and the mathematics of primes transits into the mathematics of factors of value ranges.

(vii) Factors of values ranges together with gaps bridging artifices for the pair of numbers for the consecutive letters of the text, make Vedic Mathematics of rich potentiality being availed by vedic systems for the organization of vedic knowledge, including Vedic Mathematics, in creator (4 space) with potentialities to transcend from the manifested creation format of 4 spaces itself.

(viii) Vedic Ganita Sutras text Dev Nagri alphabet is of 5 folds namely; (i) letters text, (ii) Numbers text, (iii) Full units, manifested bodies (iv) half unit manifested body (v) space content split spectra in 4 space.

(ix) The transcendence (5 space) features goes self referral (6 space) and as a result, the spatial order of creator (4 space) makes "1 as 2" and 2 as 1. As a result, the transcendental (5 space) domain has a split for its 11 geometries of signatures (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 19) as of two parts, first being (0, 1, 2, 7, 9, 10) and second being (3, 4, 5, 6, 8).

(x) The first part (0, 1, 2, 7, 9, 10) of submission value 29 makes the manifested text of 16 Ganita Sutras and 13 Ganita of Sutras and second part (3,4,5,6,8) of submission value 26 makes the transcendental Sathapatya (geometric) base for the manifested text) of Vedic Ganita Sutras and of Ganita of Sutras.

(xi) Double digit numbers 01 to 99 of ten place value system as 9+11 grid, with its upper part as 16+9+4 reflection pair of 54 double digit numbers make the earthmatics of Vedic Ganita Sutras and Upsutras. The lower part of this grid as a set of 45 double digits numbers makes 20+5 reflection pairs, as earthmatic of Vedic Mathematic Science and technology.

(xii) Mirrors embedding within artifices of numbers is the unique comprehension of vedic mathematics and it attains needed brake through for geometric format to be parallel with 16 universe organization of sun light flow through rays of the sun.

(xiii) **Artifices of numbers embedded with mirrors and reflection phenomenon of light flowing through rays of the sun, are being chased by Vedic Mathematics as parallel system.**

(xiv) **Blissful reach of vedic systems for Vedic Mathematics of consciousness based intelligence being parallel with unify format of artifices of numbers and surya rashni (sun rays) is the attainment of spatial order of creator space playing a role of dimensional order of self referral (6 space).**

(xv) **Surya (sun) is of Sathapatya (geometric format) of 6 space. The 6 space contents D_6 is of spectra 6, 4, 4, 2) of submission value 16 within creator (4 space).**

(xvi) **There are 16 Sutras. Values range 1 to 16 is of factors 1 to 29. Value 29 = 16 + 13 is parallel 16 Sutras and 30 Upsutras. The sourse Ganita Sutra 1 text is of 16 letters. The first letters is the 6^{th} vowel. It is of TCV 6, Hypercube 6 is of 4 folds (4,5,6,7) of submission value 22. The frequency of occurrence of 6^{th} vowel in the text of Ganita Sutras and Upsutras is 22. The 5 folds structural keys of Ganita Sutra 1, namely (6, 1, 8, 7, 3) as well air of submission value 22 parallel with the submission value of 4 folds (4,5,6,7) of Hypercube 6, the representative regular body of 6 space.**

3 space VMS&T

1.

Technical terms

1.3 space 2. 3 Space Content 3. 3 Space content Lump 4. 3 Space content lump as doman fold.

5. Hyper cube-3 of full unit 6. Hypercube 3 half unit. 7. 3 space body 8. Solids

9. Triloki 10. Vishwa 11. Vishwa Deva 12. Panch Mahabhoot 13. Cube

14. Sphere 15. Representative Regular bodies of 3 space 16. 7 geometries of 3 space 17.

Seven versions of hypercube 3 18. Values arrange 1 to 7 19. Mundane body 20.

Subtle body 21. Casual body

22. Waking state 23. Dream state 24. Deep sleep state

2.

Structural Components of cube

(i) External Components

1. 8 corner points 2. 12 edges 3. Six surfaces 4. 1 Volume
5. 3 Axis 6. One origin

(ii) Internal Components

1. Volume 2. Dimensional frame 3. 10 Directional frame

4. Four internal diagonals 5. Origin seat

(iii) Transcendence Within

1. Seal at origin seat 2. Origin of dual status 3. Origin as centre of domain 4. Centre as a point of domain (volume) 5. Centre as a seat of point of 4 space origin 6. Transcendence at origin

7. Transcendence reach uptil base (fold)/fifth fold/origin or origin (fourth fold)

(iv) Transcendence upword from origin into domain

1. Spatial order origin 2. Linear order domain 3. Upword transcendence from origin into domain 4. Spatial order transcendence from origin 5. Super in position of spatial order upon linear order of domain 6. Solid order with super in position of spatial order upon linear order

(v) Outward transcendence from spatial boundary

1. Solid domain 2. Spatial boundary 3. Solid domain enveloped within spatial boundary 4. Spatial boundary of six components 5.Strip off of a spatial boundary component 6.Strip off of a spatial boundary component into outer space 7. Spatial boundary component as spatial dimension structures outer space as four space. 8. Six spatial boundary components structure out outer space as six creator (four space) as creative (four space) dimensions, which together manifest as dimensional frame of six creative dimensions of six space.

3.

Different Roles of 3 space

1. 3 space as domain fold 2. 3 space (domain) as dimensional fold 3. 3 space (domain) as origin fold 4. 3 space domain as base (fold)

4.

Six place value system

1. Six place value system has 5 numerals 2. Spatial boundary of six components of 3 space manifests format for six place value system 3. Five versions of hypercube 2 as representative regular bodies of 5 geometries of 2 space are the Sathapatya geometric format of 5 numerals of six place value system format of spatial boundary of 3 space.

5.

Sequential features of 3 space manifestation

1. $1^3 = 1$, a 3 dimensional frame

2. A pair of 3 dimensional frames of half dimensions

3. Triple dimensions

4. Triple dimensions and origin make a dimensional frame of

quadruple components.

5. Split of 12 edged set up of cube as 7 edges coordinating all eight corners points and 5 edges remaining in unmanifest state.

6. Six surfaces constituting spatial boundary of cube.

7. Seven edges coordinating all the eight corner points of cube.

8. There are 8 corner points. In each corner point is embodied a three dimensional frame of half dimensions. Cube is a synthetics setup of eight sub cubes. 3 space splits into eight octants.

9. Centre of the cube as 9^{th} point, in addition to eight corner points, makes 9 points fixation of cube. At center of cube is the origin seat of creator (4 space), which is of 9 versions.

10. There is a 10 directional frame for volume of the cube.

11. 11^{th} directional coordinates with the center and unfolds within 4 space manifesting at center of the cube.

12. There are 12 edges of a cube.

13. Cube manifests 13^{th} edge within 4 space.

14. Six surfaces together with 8 corner points manifests spatial boundary of cube as of 14 structural components.

15. The coordination of spatial boundary of 14 structural components with center makes a setup of 15 structural components. The coordination of 8 corner points in terms of 7 edges as well makes a setup of 15 structural components.

6.

Three dimensional frame of half dimensions

1. In each corner point of a cube is embodied a 3 dimensional frame of half axis.

2. The other 3 dimensional frame of half axis of the corner point is of outward orientations for the axis.

3. The set of eight 3 dimensional frames of half axis of inward orientation, together with the other set of eight 3 dimensional frames of half axis of outward orientation, make a setup of 16 structural components setup, parallel with the value $16=2^4$ of dimensional frame of quadruple spatial dimensions of four space.

4. The spatial order of 4 space manifests a pair of units (2 as 1 and 1 as 2) for ½ as a working unit.

5. The spatial order of 4 space manifests Hyper cube of full unit as well as of half units. Parallel with it, the dimension as well manifests as full unit dimensions and half unit dimension.

6. Axis and half axis, as such are of Sathapatya of dimensions and half dimensions respectively. And this potentiality feature happening of spatial order 4 space deserves to be comprehended well to fully grasp the potentialities and limitations of 3 space vis-à-vis 4 space.

7.

Sequential unfolding at Center of 3 space as origin seat

1. Hyper cube 3 is of four folds (1, 2, 3, 4).

2. 4 Space plays the role of origin of 3 space.

3. Conceptually, Sathapatya (Geometric format) of *Vyasti-Samshthi*, mounts to the existence phenomenon of universal 4 space and localized 4 spaces. It is like, a big 3 space content lump as domain splitting into infinitely many 3 space content lumps domains.

4. Vedic systems format it as “Shila”, a slab, at whose center is the seat of 4 space as localized home of brahma.

5. Let us revisit the setup of a cube of 8 corner points in which are embodied 3 dimensional frames of half dimensions. These 8 corner points make quadruple pairs of end points internal quadruple diagonals of cube. When the pair of 3 dimensional frames of half dimensions of end points of internal diagonal will slide and reach center of the cube, there will happen synthesis phenomenon for a pair of 3 dimensional frames of half dimensions sintering as a 3 dimensional frames of full dimensions. These quadruple 3 dimensional frames of full dimensions together with a 3 dimensional frames of full dimensions of the cube itself, makes a setup of sold dimensional frame of 5 solid dimensions of 5 space.

6. One shall sit comfortably and to permit the transcending mind to fully glimpse and to completely imbibe this sequential unfolding processes at the center of the cube as origin seat of 4 space transiting into origin of origin seat of 5 space.

7. This internal sequential unfolding together with the outer space structure as of creative dimensional frame of 6 space, deserves to be comprehended and imbibed simultaneously.

8.

Cube and sphere

1. A^3: $6B^2$ is the domain boundary ratio formulation of the regular bodies of 3 space.

2. Cube and sphere are a pair of representative regular bodies of 3 space.

3. Transcendence at center of cube and unfolding of 4 space enveloped with a solid boundary of 8 components is the feature which is glaringly in notice in the vegetables and fruits manifested forms and frames. Illustratively, the orange and the sweet water mellon, as 4 space with stitched solid boundary of components, when chased, as sphere inside out, one will be blissfully parallel with the parallel formats of both cube as well as sphere, being of

same domain boundary format of representative regular bodies of 3 space, and also of cube within a cube, and a sphere within a sphere.

3 space VMS&T

Contents

Sathapatya (Geometric format) of conceptual terms

1. Akash (space) TCV 8 is of Sathapatya (geometric format) spectra of D4 (4, 2, 2, 0).
2. Dravya (content) TCV 17 is of Sathapatya (geometric format) of northernhemi sphere (hypercube) 4½.
3. Akash Dravya space content TCV 25 is of Sathapatya (geometric format)parallel with TCV 25 of formulation Prithvi (Earth).
4. Padarth/Objects matter TCV 22 is of Sathapatya (geometric format) of H6.
5. Triloki Padarth/physical worlds TCV 46 = 23 +23 of Sathapatya (geometric format) 25 as domain splitting into a pair of dimensional domains (23, 23).
6. Formulations of TCV 30 are parallel with TCV (Surya Rashmi).

Glimpses of 3 space VMS&T

1. One may glimpse 3 space VMS&T as manifestation of Hyper cube 3 as a structural setup of 31 components:- 8 corner points, 12 edges, 6 surfaces, 1 volume, 3 axis and 1 origin.
2. Each corner point is embedded with a 3 dimensional frame of half dimensions.
3. Each edge has super in position of a pair of progressions of opposite orientation and from the middle there is a two folds flow of opposite orientation, opposite to the orientation of dimensional exis of the corner points.
4. Center of the cube is the meeting point of inner most corner point of 8 subcubes of the cube.
5. At center of the cube is a creative seal.
6. Creative seal is a cap at transcendental cavity.

7. There happens inward and upward transcendence from the transcendental cavity at the origin seat.

8. Triple frames of 3 space domain are:- (i) Spatial value of 6 components (ii) 3 dimensional frame of linear axis, and (iii) 10 directional frames of Chatushpeeth format for the origin.

9. Creative contents flow within domain from the cosmic windows because of strip off of spatial body components.

Sum Up

1. H2+D3 = H3

2. H3+H9 = D13

3. 1 2 3 4 = H3
   2 3 4 5 = H4
   3 4 5 6 = H5
   4 5 6 7 = H6

4. H1 H2 H3 H4 = 32
   H2 H3 H4 H5 = 48
   H3 H4 H5 H6 = 64
   H4 H5 H6 H7 = 80

5.

Sr.No.	Space Contents	Space contents spactra	Space contents spactra value
1	D-3	(-3, -5, -5, -7)	-20
2	D-2	(-2, -4, -4, -6)	-16
3	D-1	(-1, -3, -3, -5)	-12
4	D0	(0, -2, -2, -4)	-8
5	D1	(1, -1, -1, -3)	-4
6	D2	(2, 0, 0, -2)	0
7	D3	(3, 1, 1, -1)	4
8	D4	(4, 2, 2, 0)	8

9	D5	(5, 3, 3, 1)	12

Conclusion

3 Space VMS&T is all about Akash Dravya manifesting as Triloki Padarth. Unity state (7 space) content flow from orb of the sun through rays of the sun manifests along Chatushpeeth format as Triloki Padarth.

Sum Up

1. Akash Dravy
2. Triloki Padarth
3. 3 Space content flow from orb of Surya
4. Back in Surya along Surya Rashmi
5. 3 space content flow in Ishan cone
6. H3 + H9 = D13
7. Unity state maintenance by natural order

1.

Unity state maintenance by natural order

1. Natural Order
2. Existence format
3. 8 space/H8
4. Chatush Peeth
5. Surya Rashmi
6. Vigyan
7. Sumhitas
8. Vedic Samhitas are text book of vigyan
9. Chapter 8 of Geeta
10. Gyan vigyan yog TCV 21+30+12=63

11. Ishan Cone
12. Om Namah Shivay
13. (63, 61)
14. 61 = 30+31
15. Ganita Sutra 13, cube within a cube
16. Origin of 8 space
17. 9 space as origin of 8 space
18. (3^0, 3^1, 3^2)
19. 139 = 101 + 38 = 101 + H10 = 51+50+H10 = H13 + h13+H10
20. (8, 9 = Double digit numbers of 3 place value and first triple digits number)
21. Sopan/TCV 26/Ganita Sutras 13
22. Padarth/TCV 22/H6
23. Akash Padarth/TCV 30
24. Akash Dravya/TCV 25/Prithvi

25. 9 x 9 grid

1	2	3	4	5	6	7	8	9	= 45
2	3	4	5	6	7	8	9	10	= 54
3	4	5	6	7	8	9	10	11	= 63
4	5	6	7	8	9	10	11	12	= 72
5	6	7	8	9	10	11	12	13	= 81
6	7	8	9	10	11	12	13	14	= 90
7	8	9	10	11	12	13	14	15	= 99
8	9	10	11	12	13	14	15	16	= 108
9	10	11	12	13	14	15	16	17	= 117

26. Factors uptil 117

Number	Factors	Factors uptil this number
100	2x2x5x5; **4**	236+4 = 240
101	101; **1**	241
102	2x3x17;**3**	244
103	103;**1**	245
104	2x2x2x13;**4**	249
105	3x5x7;**3**	252
106	2x53;**2**	254
107	107;**1**	255
108	2x2x3x3x3;**5**	260
109	109;**1**	261
110	2x5x11;**3**	264
111	3x37;**2**	266
112	2x2x2x2x7;**5**	271
113	113;**1**	272
114	2x3x19;**3**	275
115	5x23;**2**	277
116	2x2x29;**3**	280
117	3x3x13;**3**	283

To Glimpse through 3 space domain

1. To comprehend 3 space VMS&T values, one shall first glimpse through 3 space domain.
2. To fully glimpse 3 space domain, one is to place oneself at center of the domain/cube.

3. Sathapatya of center/origin of 3 space is of geometric format H3 + h3/10+11 = 21 submission value, which accepts organization as 21 = 1 + 2 + 3 + 4 + 5 + 6.
4. Center of cube is the creative (4 space) origin seat.
5. It is origin of a 3 dimensional frame.
6. Here passed through all the quadruple internal diagonals of the cube.
7. From here are fountained all the 10 directions.
8. Sathapatya measuring rod of 3 space is a synthetic setup of Hypercube 1, 2, 3.
9. The submission value of 4 folds of Hypercube 1, 2, 3 is 2 + 6 + 10 = 18 parallel to which is the organization 18 = 3+4+5+6 of 4 folds of Hypercube 5.
10. Two folds transcendence takes place at the origin, upward from the base into domain and downward from domain to base.
11. One shall glimpse triple frames for the domain, firstly as of spatial boundary of 6 components, secondly, as of a 3 dimensional frame of linear axis and thirdly, as of quadruple internal diagonals.
12. One shall sit comfortably and to permit the transcending mind to be parallel with the static state of 3 space domain as of 10 directional flow into dynamic stage of 3 space domain being of eleven directional flow, the eleventh direction through origin takes to 4 space domain.

Learning and Teaching

of 3 space VMS&T

Learning and Teaching

1. Learning and Teaching of 3 space VMS&T are of distinct but parallel formats.

2. Learning is to be parallel within sequential organization of 16 vedic Ganita Sutras, while teaching is to be parallel with sequential organization 13 vedic Ganita Upsutras.

Integrated format of Suptras and Upsutras

3. Vedic Ganita Sutras and Upsutras are of distinct formats but also together are of integrated format as well.

4. Ganita Sutras 1 to 8 and 9 to 16 make two halves. Ganita Upsutras 1 to 7 bridge the 7 gaps between Ganita Sutras 1 to 8. Ganita Upsutras 8 to 7 bridge the gaps between Ganita Sutras 9 to 15. This integrated format, as such is of 29 sequential steps.

Parallel formats of Ganita Sutras and Geeta chapters

5. Vedic Ganita Sutras and Shrimad Bhagwat Geeta chapters organization as well are of parallel formats. Geeta chapters 8 and 10 are not having parallel any Ganita Sutras.

Ganita Sutras 12 and Upsutras 2

6. For the parallel with the core values of learning and teaching on the formats of Ganita Sutras and Upsutras, one shall be parallel with the constituents formulations of Sathapatya of texts of Ganita Sutra 12 and Ganita Upsutra 2:-

Sr.No.	Ganita Sutra 12	Ganita Upsutra 2
Constituents	(i) Shesh (ii) Ank (iii) Charam	(i) Shishey (ii) Shesh (iii) Sanjaya

Source Sutra and Upsutra

7. Ganita Sutra 1 is the source sutra, while Ganita upsutra 1 is the source upsutra.

8. Ganita sutra 1 manifests rule of progression, while Ganita upsutra 1 reserves the rule of symmetry

9. First letter of text of Ganita sutra 1 is the 6^{th} vowel of TCV 6, while the first letter of Ganita upsutra 1 is the elongated first vowel of TCV 2.

10. TCV value of text of Ganita Sutra 1 is 75 which is parallel with synthesis value of a pair of transcendence value of transcendental order, while TCV Value of text of Ganita upsutra 1 is 42, which is parallel within synthesis value of a pair of transcendence ranges of spatial order.

Transition from GS 1 to GS 2 & from GUS 1 to GUS 2

11. Sequential learning is to be parallel with organization of GS 1 to GS 16, as sequential transition steps with first step of transition from GS1 to GS2. Likewise, the sequential teaching is to be parallel with organization of GUS 1 to GUS 13 as sequential transition steps with first step of transition from GUS 1 to GUS 2.

12. First learning transition step will take from mathematics of progressions to mathematics of place value systems. The first teaching transition step will take from mathematics of symmetry to mathematics of asymmetry.

13. Learning is to began with progression of "1" as "1". Teaching is to began with "1" as "2", and simultaneously, "2" as "1".

14. Learning is to began with single digit numbers, while teaching is to began with numbers of pair of digits.

15. Learning is to began with full unit axis (dimension), while teaching is to began with half axis (dimension).

16. Learning is to began with positive orientation progressions of forward counting, while teaching is to began with reverse orientation progressions of backward counting.

17. Learning focus is to be upon objects while teaching focus is to be upon images.

18. Aim of learning and teaching is to fully glimpse and imbibe mathematics of Ganita Sutras and Upsutras to be parallel with their integrated format.

Transition from GS 2 to GS 3 & from GUS 2 to GUS 3

19. Transition from GS 2 to GS 3 will take from mathematics of place value system to mathematics of angular swapping of surface.

20. Transition from GUS 2 to GUS 3 will take from mathematics of asymmetry to the unifying format for "asymmetries".

21. Likewise, sequential transitions will simultaneously cover learning and teaching of Vedic mathematics of integrated format.

Learning & Teaching reach

22. Learning and teaching reach is at same “ment”.

23. It is of integrated format of beginning and end being at same “ment”.

24. It is of Sathapatya of infinite line and circumference indistinguishably being of unified format.

25. Integrated format of Ganita Sutra and Upsutras of 29 steps of value 29 parallel with TCV (Brahma), presiding deity of spatial order 4 space, uniquely dissolves curvature in 8^{th} power of $\pi(\pi^1, \pi^2, \pi^3, \pi^4, \pi^5, \pi^6, \pi^7, \pi^8)$ in 20 steps of increasing hyper circles 1 to 7 and decreasing hyper circles 8 to 20 and thereby having transition from spatial order 4 space to solid order 5 space.

Ganita Sutras 15 and 16

26. Table of letterwise Sathapatya of text of Ganita Sutra - 15

Sr. No.	Letter	TCV	Sathapatya
1		3	3 space domain
2		3	3 dimensional frame of triple dimensions
3		7	(i) 7 components of 3 dimensional frame (ii) 7 versions of hypercube 3. (iii) 7 geometries of 3 space. (iv) Base folds as transcendental order of 7 space. (v) hypercube 2 of half Unit
4		2	(i) 2 dimensional frame (ii) pair of dimensions of order “0”. (iii) Spatial order of 4 space
5		4	(i) Creative order (ii) 4 space as dimensional order of 6 space
6		1	(i) Linear space dimensional order of ingle negative linear order. (ii) “6” as “1” (iii) Double digits numbers of 5 place value system i.e. “6” as “10” (iv) TCV shat = 10 = TCV dash.
7		3	Second part of 3 dimensional frame as format of second ushma letter of TCV 3.
8		1	(i) Linear space dimensional order of single negative linear order. (ii) “6” as “1”

			(iii) Double digits numbers of 5 place value system i.e. “6” as “10” (iv) TCV shat = 10 = TCV dash.
9		9	5^{th} letter of 5^{th} row of varga consonants is the base fold of transcendental dimensional order and is of TCV 9 parallel with 9 versions of Hypercube 4 as representative regular bodies of 9 geometries of 4 space.
10		3	3 dimensional frame of triple dimensions
11		2	First letter of second row of varga consonants as a spatial order of TCV 2.
12		2	First letter of second row of varga consonants as a spatial order of TCV 2.
13		1	(i) Linear space dimensional order of single negative linear order. (ii) “6” as “1” (iii) Double digits numbers of 5 place value system i.e. “6” as “10” (iv) TCV shat = 10 = TCV dash.
14		1	First Antstha letter of TCV 1 of Sathapatya of linear boundary of spatial domain.
15		1	(i) Linear space dimensional order of single negative linear order. (ii) “6” as “1” (iii) Double digits numbers of 5 place value system i.e. “6” as “10” (iv) TCV shat = 10 = TCV dash.
16		13	5^{th} Yama letter of TCV 13. Of Sathapatya of hypercube 2½

27. **Table of Sathapatya of letters of text of Ganita Sutras - 16**

Sr. No.	**Letter**	**TCV**	**Sathapatya**
1		3	3 space domain
2		3	3 dimensional frame of triple dimensions
3		7	(i) 7 components of 3 dimensional frame (ii) 7 versions of hypercube 3. (iii) 7 geometries of 3 space. (iv) Base folds as transcendental order of 7 space.

			(v) hypercube 2 of half unit
4		1	
5		4	Ka Brahma, Over Lord of 4 space.
6		1	(i) Linear space dimensional order of single negative linear order. (ii) "6" as "1" (iii) Double digits numbers of 5 place value system i.e. "6" as "10" (iv) TCV shat = 10 = TCV dash.
7		3	Second part of 3 dimensional frame as format of second ushma letter of TCV 3.
8		1	(i) Linear space dimensional order of single negative linear order. (ii) "6" as "1" (iii) Double digits numbers of 5 place value system i.e. "6" as "10" (iv) TCV shat = 10 = TCV dash.
9		9	5^{th} letter of 5^{th} row of varga consonants is the base fold of transcendental dimensional order and is of TCV 9 parallel with 9 versions of Hypercube 4 as representative regular bodies of 9 geometries of 4 space.
10		3	3 dimensional frame of triple dimensions
11		2	First letter of second row of varga consonants as a spatial order of TCV 2.
12		2	First letter of second row of varga consonants as a spatial order of TCV 2.
13		1	(i) Linear space dimensional order of single negative linear order. (ii) "6" as "1" (iii) Double digits numbers of 5 place value system i.e. "6" as "10" (iv) TCV shat = 10 = TCV dash.
14		1	First Antstha letter of TCV 1 of Sathapatya of linear boundary of spatial domain.
15		1	(i) Linear space dimensional order of single negative linear order. (ii) "6" as "1" (iii) Double digits numbers of 5 place value system i.e. "6" as "10"

			(iv) TCV shat = 10 = TCV dash.
16		13	5^{th} Yama letter of TCV 13. Of Sathapatya of hypercube 2½

Conceptual Base

Conceptual base of VMS&T is parallel with 7 space content flow from orb (origin) of Surya (sun)/6 space domain through surya rashmi (ray of the sun) manifesting as Chatushpeeth of Sathapatya of H8 as 8 directional frame in 4 space.

(1)

Conceptual terms

(i) **Surya (sun)**: Surya formulation is of TCV-13 parallel with 30^{th} version of hypercube 6, the representative regular body of 30^{th} geometry of 6 space.

(ii) **Surya Rashmi (Ray of the sun):** Formulation Surya Rashmi is of TCV 30 parallel with submission value of 4 folds (6, 7, 8, 9) of H8 in 4 space.

(iii) **Chatushpeeth (8 directional frame):** formulation chatushpeeth is of TCV 30, parallel submission value of 4 folds (6,7,8,9) of H8 in 4 space.

(iv) **Creator space:** Vedic systems accept 4 space as creator space presided by Lord Brahma, a four head lord, with each head equipped with a pair of eyes. Lord Brahma sits comfortably upon a lotus seat of 8 petals and meditates within cavity of his own heart at seat of 5 head transcendental lord Shiv. The format, features and values of idol of Lord Brahma are parallel with Hypercube 4, representative regular body of 4 space in 4 space.

(v) **Formulation Brahma** is of TCV 29 parallel to which is the organization of integrated format of 29 steps of 16 Vedic Ganita sutras and 13 upsutras.

(2)

Quadruple folds organizations

(i) Vedas

There are 4 vedas: (i) Rigved, (ii) Yajurved, (iii) Samved (iv) Atharvved.

Ved	**Formulation**	**Formulation**	
Rigved	Rik (5)	Rigved (27)	
Yajurved	Yajur (11)	Yajurved (31)	
Samved	Sam (15)	Samved (35)	
Atharvved	Atharv (17)	Atharvved (37)	

(ii) Upvedas

Each ved has pure values has upved of applied values . There are 4 upvedas : (i) Ayur upved (ii) Dhanur upved (iii) Gandharv upved (iv) Sathapatya upved. Pure values of vedas and applied valued of upvedas, run parallel to each other, and as such upvedas as well have the status of vedas and accordingly these upvedas are designated as (i) Ayur ved (ii) Dhanur ved (iii) Gandharv ved (iv) Sathapatya ved.

Ved Formulation with TCV	**Upved Formulation with TCV**
Rigved (27)	Ayur upved (8+29=37)
Yajurved (31)	Dhanur upved (22+29=51)
Samved (35)	Gandharav upved (30+20=59)
Atharvved (37)	Sathapatya upved (22+29=51)

(iii) Vedic Organization:

Vedic organization is as (i) Samhita (ii) Brahmna (iii) Arnak (iv) Upnashid

Vedic Scripture	TCV
Samhita	30
Brahmna	37
Arnak	15
Upnashid	32

(iv) Vedic Processing Sathapatya

Vedic Processing Sathapatya is of 4 folds: (i) Yantra (ii) Tantra (iii) Mantra (iv) Jantri:

Vedic Processing Fold	TCV	Sathapatya
Yantra	16	Parallel with 4 space dimensional frame of quadruple spatial dimensions.
Tantra	19	Parallel with 19^{th} geometry of 9 space of Sathapatya of Southern hemisphere
Mantra	24	Parallel with value of 6 space dimensional frame of 6 creative dimensional of Sathapatya of Pursha format
Jantri	22	Parallel with submission value of quadruple folds values (4, 5, 6, 7) of hypercube 6, the representative regular body of 6 space in 4 space manifesting as "Pashchim"/Sathapatya of reach of Surya Rashmi from Purab to Pashchim as Brahmand domain.

(3)

Transcendental Space

(i) Paramvyon (Transcendental space)

Formulation paramvyon is of TCV 44. It is transcendental format accepting organization 44 = 23 + 21 parallel with TCV values of formulations Janam (birth) and Mrityu (death).

(ii) Chakarvarti Smrath (Sovereign)

Formulation Chakarvarti Smrath as well is of TCV 44 parallel with TCV Paramvyon.

(iii) Chatushpeeth Satta (8 directional format Sathapatya)

Formulation Chatushpeeth Satta is of TCV 44 parallel with TCV Paramvyon. Values pair (44, 42) is of the format of 44 as domain and 42 as dimension. Value 42nd is parallel with TCV 42 of formulation punarjanam (rebirth). Lagad yajurved jyotish vedam scripture is of 44 shalokas range and 42nd shaloka is about new generation calanders.

(4)

VMS&T

(i) **Ganita (Mathematics):** Formulation Ganita is of TCV 18 parallel with TCV of formulation shunya, parakirta, Ishwar, Vidhya.

(II) **Vigyan (Science)**: Formulation vigyan is of TCV 30, which is parallel with TCV Chatushpeeth.

(iii) **Takniki (Technology)**: Formulation Takniki is of TCV 22 parallel with TCV of formulation pashchim.

(iv) **Formulations Ganita, Vigyan and Takniki:** These triple formulations TCV values triple (18, 30, 22) is of submission value 70 which is parallel with submission of transcendental range (12, 13, 14, 15, 16). Further value 70 is parallel with 5th explosion of domain (1) as of sequential spectra (2, 5, 12, 29, 70).

(v) **VMS&T :** The discipline VMS&T is essence of values of disciplines of vedic mathematics, vedic sciences and vedic technologies.

(5)

Ang, Pratyang (Macro and micro-organs)

(i) Ang (Organ)

Formulation Ang is of TCV 10 which is of the format of creative boundary of 10 components of transcendental domain.

(ii) Pratyang (Micro-organ)

Formulation pratyang (micro organ) is of TCV 22 parallen with the submission value of 4 folds of Hypercube 6, the representative regular body of 6 space.

(iii) **Shareer (body):**

Formulation sharer (body) is of TCV 14, which is parallel with self referral body (6 space boundary) of unitystate (7 space domain). The value 14 is also parallel with the TCV of formulation sapt (seven). Value 14 is also parallel with the submission value 14 of 4 folds (2, 3, 4, 5) of Hypercube 4, the representative regular body of 4 space in 4 space.

VMS&T
Learning and Teaching

(1)
Vedic Ganita Sutras and Upsutras

(i) Vedic Ganita Sutras and Upsutras are the basis base mathematics of vedic mathematics of science and technology.

(ii) Vedic Ganita Sutras and Upsutras are of distinct but of parallel formats and also accept integrated format.

(iii) Learning of principles of VMS&T is initiated with values of Ganita Sutras, while teaching of features and formats of values of VMS&T is initiated in terms of the processing steps of Ganita Upsutras.

(iv) As end fruit of learning and teaching of principles of VMS&T is of end reach at the same "ment", as such, the learning and teaching step shall be of complementary and supplementary features of integrated format of Ganita Sutras and Upsutras.

(2)
Integrated Format of Ganita Sutras and Upsutras

(i) The integrated format of 16 Ganita Sutras and 13 Upsutras is of 29 sequential steps parallel with the interlocking of artifices of 29 factors of numbers 1 to 16.

(ii) The integrated format of Ganita Sutras and Upsutras manifestation is there in creator space (4 space) presided by Lord Brahma. The idol of Brahma is of organization format features parallel with organization format features of Hypercube 4. TCV (Brahma ब्रह्मा) = 29 is parallel with 29 versions of Hypercube 14.

(iii) Parallel with role of 4 space as creative dimension of 6 space, the integrated format transits and transforms as 6 space is a self referral space and accepts units "6" as "1" and "1" as "6".

(iv) The emerging transition of integrated format is of the feature as that 16 Ganita Sutras of sequence 1 to 16 get organized as (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 1, 2, 3, 4, 5).

(v) The transition format of integrated format of Ganitas Sutras and Upsutras manifests as the learning and teaching of VMS&T principles reach.

(3)
Teaching of Principles of VMS&T

(i) Teaching of principles of VMS&T is to be parallel with the organization format, feature and values of mathematics of Ganita Upsutras.

(ii) Core principle of organization of Ganita Upsutras text is that the discipline of mathematics of Ganita Upsutras that it sequentially unfolds is 13 phases parallel with the mathematical domain of Ganita Upsutras 1 to 13.
(iii) Ganita Upsutra 1 is the principal Upsutra.
(iv) Ganita Upsutras 13 is the end fruit reach of mathematics of Ganita Upsutras.

(4)
Principal Ganita Upsutra

(i) Ganita Upsutra 1 is the principal upsutra.
(ii) Mathematical domain of Ganita Upsutra sequentially unfolds as mathematical domain of Ganita Upsutra 1 to Ganita Upsutra 13.
(iii) These 13 mathematical domain of Ganita Upsutras bridge the gaps of mathematical domain of Ganiya Upsutras. Illustratively the mathematical domain of Ganita Upsutra 1 bridges the gap in between the mathematical domain of Ganita Upsutra 1 and Ganita Upsutra 2. In the transition format of the integrated format, the mathematical domain of Ganita Upsutra 1 bridges the gap in between the mathematical domain of Ganita Sutra 6 and Ganita Sutra 7.

(5)
First Learning and Teaching Steps of VMS&T

(i) First learning step of VMS&T is to be all about the basis base mathematics of Ganita Sutra 1.
(ii) First teaching step of VMS&T is to be parallel with the values of basis base mathematics of Ganita Upsutra 1.
(iii) The focus of first teaching step of VMS&T as per the values of mathematical domain of Ganita Upsutra 1 is to teach smooth transition from the basis base mathematics of Ganita Sutra 1 to the basis base mathematics of Ganita Sutra 2.
(iv) Simple rendering of the processing steps of Ganita Upsutra 1 is the proportionately. It is a mathematics of symmetry. It is of principle of following the "forms" as these are "framed".
(v) The transition from Ganita Sutra 1 to Ganita Sutra 2 is a transition from steps of sequential progression to steps of place value systems.
(vi) Learning aim here is to learn and imbibe the values and features of transition from steps of linear progression to place value progression.
(vii) Teaching aim is going to be to teach to learn smooth transition from Ganita Sutra 1 to Ganita Sutra 2.
(viii) The conceptual term "Anurupena आनुरूप्येण" is of wide spectra expressible as proportionately/ symmetry framed frames etc. And the focus of teaching

and learning, naturally is to be all about to be focused upon the aim to attain transition from Ganita Sutra 1 to Ganita Sutra 2.

(6)
Final Learning and Teaching Steps of VMS&T

(i) The final learning step of VMS&T of integrated format of Ganita Sutras and Upsutras is the combined basis base of mathematical domains of Ganita Sutra 15 and 16 together.

(ii) The final teaching step of VMS&T f integrated format of Ganita Sutras and Upsutras is the basis base mathematics of Ganita Upsutras 13.

(iii) The text of Ganita Upsutra 13 is of paired di-monads.

(iv) The orientation of organization of pair of parts of pair of di-monads is of opposite orientation of the formats of reflection pair of object any image.

(v) One may have a pause here and revisit the first step of Ganita Upsutra 1 and to imbibe symmetry feature reach uptil the final step of symmetry of paired monads format of text of Ganita Upsutra 13.

(vi) A step prior to final step, as of basis base mathematics Ganita Upsutra 12 "Vivlokanam विलोकनम्" will help comprehend and appreciate the end fruit reach of basis base value of mathematical domain of Ganita Upsutras 1 to 13.

(vii) It is the affection of glimpsing and imbibing, which is the essence of teaching VMS&T on first principle of basis base mathematics of Ganita Upsutras, which is to perfect the learning on first principle of basis base mathematics of Ganita Sutras augmented by first principle of basis base mathematics of Ganita Upsutras.

(7)
3 Space VMS&T

(1) Letters of TCV 3.
- (i) 3rd Vowel of format of 3 dimensional frame of three linear axis.
- (ii) 3rd letter of first row of Verga consonance as 3 space domain.
- (iii) 2nd letter of second row of Verga consonance as 3 space boundary of 2 space.
- (iv) 1st letter of second row of Verga consonance as solid dimensional order of 5 space.
- (v) 2nd Antstha letter, as outer most 3 space as boundary layer.
- (vi) 2nd Ushmana letter as, solid order super in position upon the spatial order of domain.

(2) Number 3
- (i) Number 3 is the first odd prime.

(ii) (1, 2, 3) is the unique triple of non-composite consecutive numbers.

(3) 3 Space

A space within a dimensional frame of triple linear dimensions is designated as three dimensional frame, in short, 3 space.

(4) 3 Space content

3 Space content is the condition space content within 3 space.

(5) 3 Space body

3 space content manifested within 4 space as a 4 folds manifestation is a 3 space body. It is designated as Hypercube-3. When it is formatted in terms of full units as 4 folds (1, 2, 3, 4)/(1 space as dimension, 2 space as boundary, 3 space as domain, 4 space as origin), it is designated as Hypercube 3 of full unit.

(6) 3 Space body of half unit

Within 4 space 3 space content also manifests as of 4 folds (2, 2½, 3, 3½ and is designated as hypercube 3 of half unit.

(7) Different roles of 3 space domain

(i) 3 Space as domain of Hypercube 3

(ii) 3 Space as origin of hypercube 2.

(iii) 3 space as dimension 5 space.

(iv) 3 space as boundary of 4 space.

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3 space VMS&T

1.

Technical terms

1. 3 space 2. 3 Space Content 3. 3 Space content Lump 4. 3 Space content lump as doman fold.

5. Hyper cube-3 of full unit 6. Hypercube 3 half unit. 7. 3 space body 8. Solids

9. Triloki 10. Vishwa 11. Vishwa Deva 12. Panch Mahabhoot 13. Cube

14. Sphere 15. Representative Regular bodies of 3 space 16. 7 geometries of 3 space 17.

Seven versions of hypercube 3 18. Values arrange 1 to 7 19. Mundane body 20.

Subtle body 21. Casual body

22. Waking state 23. Dream state 24. Deep sleep state

2.

Structural Components of cube

(i) External Components

2. 8 corner points 2. 12 edges 3. Six surfaces 4. 1 Volume
6. 3 Axis 6. One origin

(ii) Internal Components

1. Volume 2. Dimensional frame 3. 10 Directional frame

4. Four internal diagonals 5. Origin seat

(iii) Transcendence Within

1. Seal at origin seat 2. Origin of dual status 3. Origin as centre of domain 4. Centre as a point of domain (volume) 5. Centre as a seat of point of 4 space origin 6. Transcendence at origin

7. Transcendence reach uptil base (fold)/fifth fold/origin or origin (fourth fold)

(iv) Transcendence upword from origin into domain

2. Spatial order origin 2. Linear order domain 3. Upword transcendence from origin into domain 4. Spatial order transcendence from origin 5. Super in position of spatial order upon linear order of domain 6. Solid order with super in position of spatial order upon linear order

(v) Outward transcendence from spatial boundary

1. Solid domain 2. Spatial boundary 3. Solid domain enveloped within spatial boundary 4. Spatial boundary of six components 5.Strip off of a spatial boundary component 6.Strip off of a spatial boundary component into outer space 7. Spatial boundary component as spatial dimension structures outer space as four space. 8. Six spatial boundary components structure out outer space as six creator (four space) as creative (four space) dimensions, which together manifest as dimensional frame of six creative dimensions of six space.

3.

Different Roles of 3 space

2. 3 space as domain fold 2. 3 space (domain) as dimensional fold 3. 3 space (domain) as origin fold 4. 3 space domain as base (fold)

4.

Six place value system

1. Six place value system has 5 numerals 2. Spatial boundary of six components of 3 space manifests format for six place value system 3. Five versions of hypercube 2 as representative regular bodies of 5 geometries of 2 space are the Sathapatya geometric format of 5 numerals of six place value system format of spatial boundary of 3 space.

5.

Sequential features of 3 space manifestation

1. $1^3 = 1$, a 3 dimensional frame

2. A pair of 3 dimensional frames of half dimensions

3. Triple dimensions

4. Triple dimensions and origin make a dimensional frame of

quadruple components.

5. Split of 12 edged set up of cube as 7 edges coordinating all eight corners points and 5 edges remaining in unmanifest state.

6. Six surfaces constituting spatial boundary of cube.

7. Seven edges coordinating all the eight corner points of cube.

8. There are 8 corner points. In each corner point is embodied a three dimensional frame of half dimensions. Cube is a synthetics setup of eight sub cubes. 3 space splits into eight octants.

9. Centre of the cube as 9^{th} point, in addition to eight corner points, makes 9 points fixation of cube. At center of cube is the origin seat of creator (4 space), which is of 9 versions.

10. There is a 10 directional frame for volume of the cube.

11. 11^{th} directional coordinates with the center and unfolds within 4 space manifesting at center of the cube.

12. There are 12 edges of a cube.

13. Cube manifests 13^{th} edge within 4 space.

14. Six surfaces together with 8 corner points manifests spatial boundary of cube as of 14 structural components.

15. The coordination of spatial boundary of 14 structural components with center makes a setup of 15 structural components. The coordination of 8 corner points in terms of 7 edges as well makes a setup of 15 structural components.

6.

Three dimensional frame of half dimensions

1. In each corner point of a cube is embodied a 3 dimensional frame of half axis.

2. The other 3 dimensional frame of half axis of the corner point is of outward orientations for the axis.

3. The set of eight 3 dimensional frames of half axis of inward orientation, together with the other set of eight 3 dimensional frames of half axis of outward orientation, make a setup of 16 structural components setup, parallel with the value $16=2^4$ of dimensional frame of quadruple spatial dimensions of four space.

4. The spatial order of 4 space manifests a pair of units (2 as 1 and 1 as 2) for ½ as a working unit.

5. The spatial order of 4 space manifests Hyper cube of full unit as well as of half units. Parallel with it, the dimension as well manifests as full unit dimensions and half unit dimension.

6. Axis and half axis, as such are of Sathapatya of dimensions and half dimensions respectively. And this potentiality feature happening of spatial order 4 space deserves to be comprehended well to fully grasp the potentialities and limitations of 3 space vis-à-vis 4 space.

7.

Sequential unfolding at Center of 3 space as origin seat

1. Hyper cube 3 is of four folds (1, 2, 3, 4).

2. 4 Space plays the role of origin of 3 space.

3. Conceptually, Sathapatya (Geometric format) of *Vyasti-Samshthi*, mounts to the existence phenomenon of universal 4 space and localized 4 spaces. It is like, a big 3 space content lump as domain splitting into infinitely many 3 space content lumps domains.

4. Vedic systems format it as “Shila”, a slab, at whose center is the seat of 4 space as localized home of brahma.

5. Let us revisit the setup of a cube of 8 corner points in which are embodied 3 dimensional frames of half dimensions. These 8 corner points make quadruple pairs of end points internal quadruple diagonals of cube. When the pair of 3 dimensional frames of half dimensions of end points of internal diagonal will slide and reach center of the cube, there will happen synthesis phenomenon for a pair of 3 dimensional frames of half dimensions sintering as a 3 dimensional frames of full dimensions. These quadruple 3 dimensional frames of full dimensions together with a 3 dimensional frames of full dimensions of the cube itself, makes a setup of sold dimensional frame of 5 solid dimensions of 5 space.

6. One shall sit comfortably and to permit the transcending mind to fully glimpse and to completely imbibe this sequential unfolding processes at the center of the cube as origin seat of 4 space transiting into origin of origin seat of 5 space.

7. This internal sequential unfolding together with the outer space structure as of creative dimensional frame of 6 space, deserves to be comprehended and imbibed simultaneously.

8.

Cube and sphere

1. A^3: $6B^2$ is the domain boundary ratio formulation of the regular bodies of 3 space.

2. Cube and sphere are a pair of representative regular bodies of 3 space.

3. Transcendence at center of cube and unfolding of 4 space envelopepd with a solid boundary of 8 components is the feature which is glaringly in notice in the vegetables and fruits manifested forms and frames. Illustratively, the orange and the sweet water mellon, as 4 space with stitched solid boundary of components, when chased, as sphere inside out, one will be blissfully parallel with the parallel formats of both cube as well as sphere, being of

same domain boundary format of representative regular bodies of 3 space, and also of cube within a cube, and a sphere within a sphere.

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3 space VMS&T

Contents

Structural Features of constituents of cube

1.

Introductory

1. Cube is a 3 space body.
2. The constituents of cube are:

   (i) 8 corner points (ii) 12 edges (iii) Six surface plates (iv) 1 volume (v) 3 axis (vi) 1 origin of 3 dimensional frame of placement at the center of the cube
3. Internal Structural setup of cube is of following components:

   (i) Center of the cube (ii) Origin of 3 dimensional

   Frame at center (iii) 3 dimensional frame (iv) 10 directional frame (v) 4 internal diagonals of cube
4. Cube is a representative regular body of 3 space in 4 space.
5. Cube is hyper cube 3 of 4 folds (1 space as dimension, 2 space as boundary, 3 space as domain and 4 space as the origin)

Structural Features of Constituents of Cube

1. Corner point

   (i) Corner point is a structured point

   (ii) It plays the role of origin constituents of 3 dimensional frame.

   (iii) Within corner point is embedded a 3 dimensional frame of half dimensions of inward orientation.

   (iv) Corner point is of Sathapatya (geometric format) of 0 space

2. Edge

   (i) There are 12 edges

   (ii) Each Edge is a bridge between a pair of corner points

   (iii) Edge has a pair of orientations, from first corner point to the second corner point, and vice-versa.

   (iv) The middle of the edge is a meeting point of pair of opposite orientations setups of an edge.

(v) Pair of opposite orientations accept a neutralized orientation format.

(vi) Pair of opposite orientations, and neutralized orientations of Sathapatya (geometric format) (+1 space like, 0 space line , -1 space line) within a surface (+2 space surface).

(VII) These quadruple features (2, +1, 0, -1) are of Sathapatya (geometric format) of 4 folds of hyper cube -1.

(viii) Sathapatya of edge (geometric format) is the hyper cube 1.

(ix) To cut the edge into two equal halves amounts to “edge cutting technology”.

(x) It is of a format of split of closed interval into a closed and half closed intervals.

(xi) It is applied value of mathematics of Ganita Sutra 8.

3. Surface

(i) There are 6 surfaces.

(ii) It is of Sathapatya (geometric format) of hyper cube 2.

4. Volume

(i) Volume is 3 space content lump

(ii) Volume as domain of cube/hyper cube 3 is a synthetic setup of volumes of 8 sub cubes.

5. Centre of Cube

(i) Center of cube is uniquely placed as of an equally distant point from all the 8 corner points.

(ii) Center of cube is a dual status, firstly being like any other point of volume and secondly being unique, has no other point than center is equally distant placed, from the corner points.

(iii) Center of the cube is the seat of origin of 3 space.

(iv) At center of the cube are placements of inner most corner points of all eight sub-cubes of the cube.

(v) At center of the cube is the placement of origin of a 3 dimensional frame of the cube.

(vi) Center of cube is the center of 10 directional frames of the cube.

(vii) Center of the cube is the meeting point of quadruple internal diagonals of the cube.

(viii) Center of the cube is the seat of origin of a solid dimensional frame of five sold dimensional frames.

(ix) Center of the cube is the seal for the volume (domain) of cube/hyper cube 3.

(x) With melting of the seal at center of the cube, there manifests a transcendental cavity.

(xi) The inward transcendence at center of the cube is of sequential unfolding of compactified origins .

3.

Sathapatya (geometric format) of cube and Vedic Ganita Sutras

1. Linear Order and Ganita of Sutra – 1

   (i) Sathapatya measuring rod of 3 space is of linear (1 space) measure.

   (ii) Mathematics of linear measure is the mathematics of linear progression of Ganita Sutra -1.

2. 10 directional frames and Ganita Sutra – 2

(i) Cube has 9 points (8 corner points and 9^{th} center) fixation and also it has 10 directional frames.

(ii) The mathematics of 9 point fixation and 10 directional frames is parallel with the Mathematics of "all from 9 and last from 10" of Ganita Sutras – 2.

3. Pair of arms of an angle and Ganita Sutra-3.

(i) The mathematics of 10 directional frame of cube of 9 points fixation is the mathematics of a pair of arms of an angle.

(ii) The mathematics of a pair of arms of an angle is of the format of "vertically and crosswise" mathematics of Ganita Sutra-3.

4. Mathematics of 9^{th} and 10^{th} directions, and mathematics of Ganita Sutras-3 and 4.

(i) Parallel, but of opposite orientations formats are the mathematics of 9^{th} and 10^{th} directions.

(ii) This opposite orientations setup of 9^{th} and 10^{th} directions is parallel with that of Ganita Sutras – 3 and Ganita Sutra-4.

4.

Manifestation through and Transcendence along Surya Rashmi (Ray of the sun) of cube upon Chatushpeeth format.

1. Conceptual terms Surya Rashmi and Chatushpeeth, both are of TCV 30 each.
2. Value 30 is parallel with the submission value of 4 folds (6,7,8, 9) of hypercube 8.
3. Cube with sealed origin is of 30 structural components , namely:

   (i) 8 corner points (ii) 12 edges (iii) 6 surfaces (iv) 1 volume and (v) 3 axis.
4. Value 30 is parallel with TCV 30 of formulation Agni cone.
5. Value 30 as dimension takes to value 33, TCV of formulation Ishan cone.
6. The Ishan cone – Agni cone format is of pair of values (33, 30) of submission value 63 parallel with TCV value of transcendental formulation: Om Namah Shivay.
7. 3 Space VMS&T is of transcendental attainments as transcendental (5 space) domain is of solid (3 space) dimensional order.

8. Manifestation for the dynamic state Hyper cube 3 of full unit of 4 folds (1,2,3,4) of submission value 10 is hyper cube 3 of half unit of 4 folds (2, 2½, 3, 3½) of submission value 11, which is parallel with TCV Value 11 for both formulation Shila and Shala.

9. At center of Shila is home of localized Brahma. Shadkas fulfilled with intensity of urge to be parallel with 3 space VM&ST shall visit in glimpse the existence phenomenon of localized Brahma in the role of origin fold of Hyper cube 3.

10. The episode of vidyadhari and Brahma residing in the home at center of shila is preserved enlightenment on the point by yog vashastha.

Vedic Mathematics Science and Technology
Learning and Teaching
Teaching of VMS&T

(1)
Basis base features

1. Core features

1.1 The core features focus of teaching of VMS&T is to remain "Surya Parikarmaपरिक्रमाof Prithviपृथिवि".

1.2 Formulation Surya Parikarmaसूर्यपरिक्रमाof accepts TCV 13+25+22=60.

1.3 Value 60 is parallel with 60 coordinates fixation of transcendental (5 space) body of 12 components of self referral (6 space) domain.

1.4 Within creator space (4 space), there is a transcendental (5 space) seal at the original seat of creator space (4 space).

1.5 60 coordinates fixation of transcendental (5 space) boundary of self-referral (6 space) domain at the transcendental (5 space) seal at organ seat manifests Surya Parikarmaसूर्यपरिक्रमाof Path of Prithviपृथिवि.

1.6 Value 60 accepts organization as 30+30.

1.7 Value 30 is parallel with submission value of 4 folds (6,7,8,9) of Hypercube 8.

1.8 Value 30 is also parallel with TCV (Chatushpeethचतुष्पीठ), as well as TCV (Surya Rashmiसूर्यरश्मि्).

1.9 Transcendental (5 space) domain is enveloped within creative (4 space) boundary of 10 components.

1.10 The creative (4 space) boundary of transcendental (5 space) domain accepts fixation in terms of 10 x 5 = 50 coordinates.

1.11 Value 50 accepts organization as 50 = 25 + 25.

1.12 Value 50 is parallel with submission value of 4 folds (11, 12, 13, 14) of Hypercube 13, while value 25 is parallel with submission of 4 folds (5½ , 6, 6 ½, 7) hypercube 6½.

1.13 The organization features of Hypercube 13 spliting as a pair of hypercube 6½ is the feature of Sathapatya (geometric format) of Prithvi (Earth) path of revolution around suryaसूर्य(sun).

2. Space contents (AkashDravyaआकाशद्रव्य)

2.1 Formulation AkashDravya(आकाशद्रव्य) is of TCV 8+17 = 25 parallel with TCV (Prithviपृथिवि).

2.2 Splits spectra of hypercube 13 of 4 folds (11, 12, 13, 14) of submission value 50, is as of a pair of hypercube 6½ is parallel with

manifestation of Sathapatya of Prithviपृथिविalong AkashDravyaआकाशद्रव्य.

2.3 Values pair (25, 25) as a pair of dimensional axis of order 25, lead to synthesis value 27, which is parallel with 27 Nakshatrasनक्षत्र(constellation).

2.4 Surya Parkarmaसूर्यपरिक्रमाSathapatya (geometric format) of 60 coordinates and of organization 60 = 30 + 30, and value 30 as origin of hypercube 29 and dimension 27 leads to synthesis setup of the solar universe as of a pair of hemisphere of 27 Nakshatrasनक्षत्र(constellation) each.

2.5 Teaching focus of VMS&T, as such, is to the parallel with these organization format features of Surya Parikarmaसूर्यपरिक्रमाPath of Prathviपृथिवि.

3. 3 Space VMS&T

3.1 Letters of TCV 3.

(i) 3rd Vowel of format of 3 dimensional frame of three linear axis.

(ii) 3rd letter of first row of Vergaवर्गconsonance as 3 space domain.

(iii) 2nd letter of second row of Vergaवर्गconsonance as 3 space boundary of 2 space.

(iv) 1st letter of second row of Vergaवर्गconsonance as solid dimensional order of 5 space.

(v) 2ndAntstha letter, as outer most 3 space as boundary layer.

(vi) 2ndUshmana letter as, solid order super in position upon the spatial order of domain.

3.2 Number 3

(i) Number 3 is the first odd prime.

(ii) (1, 2, 3) is the unique triple of non-composite consecutive numbers.

3.3 3 Space

A space within a dimensional frame of triple linear dimensions is designated as three dimensional frame, in short, 3 space.

3.4 3 Space content

3 Space content is the condition space content within 3 space.

3.5 3 Space body

3 space content manifested within 4 space as a 4 folds manifestation is a 3 space body. It is designated as Hypercube-3. When it is formatted in terms of full units as 4 folds (1, 2, 3, 4)/(1 space as dimension, 2 space as boundary, 3 space as domain, 4 space as origin), it is designated as Hypercube 3 of full unit.

3.6 3 Space body of half unit

Within 4 space 3 space content also manifests as of 4 folds (2, 2½, 3, 3½ and is designated as hypercube 3 of half unit.

3.7 Different roles of 3 space domain

(i) 3 Space as domain of Hypercube 3

(ii) 3 Space as origin of hypercube 2.

(iii) 3 space as dimension 5 space.

(iv) 3 space as boundary of 4 space.

3.8 7 geometries of 3 space

(i) 3 space has 7 geometries.

(ii) 7 versions of hypercube 3 are the representative regular bodies of 7 geometries of 3 space.

3.9 Rang रंग(Colour) Tarangतरंग (Wave)

(i) Formulation rang रंग(colour) is of TCV 13 parallel with the submission value of 4 folds (2 ½ , 3, 3 ½, 4) of hypercube 3 ½.

(ii) Formulation Tarangतरंग(wave) is of TCV 18 parallel with 4 folds (3, 4, 5, 6) of Hypercube 5.

(iii) Formulations pair Rang Tarang (colour wave) is of TCV 13 + 18 = 31 parallel with TCV (DivyaShareer).

(iv) Value 31 is also parallel with value 31 of 31 structural components of cube:
8 corner points, 12 edges, 6 surfaces, 1 volume, 3 axis and 1 origin.

(v) Six letters of Devnagri alphabet of TCV 3 are of Sathapatya of 3 dimensional frame, 3 space domain, 3 space boundary, 3 space dimension, 3 space as end layer of boundary and 3 space as solid order transcendence and super in position of the spatial order.

(vi) These six roles of TCV 3 letters and their features together manifest a 3 space content wave **(as of distinct phases being depicted hereunder)**.

(vii) 7 geometries of 3 space and their representative regular bodies, make 3 space content wave of 7 colours spectra.

(viii) This Sathapatya feature acquires core focus of teaching of VMS&T.

4. 7 States of consciousness.

(i) Formulation Chetnaचेतना (consciousness) is of TCV 23.

(ii) Value 23 is the submission value of 4 folds (5, 5 ½, 6, 6 ½,) of hypercube 6.

(iii) There are 7 states of consciousness of features:-

C1 = Sr.No., C2= Consciousness State, C3 =TCV Value, C4=TCV of first formulation, C5=TCV of Second formulation and C6 = Total TCV uptil the stage of consciousness state.

C1	C2	C3	C4	C5	C6
1	JagritAvasthaजाग्रतअवस्था (Waking state)	16+19=35	16	19	35
2	SwapanAvastha स्वपनअवस्था	25+19=44	25	19	79

	(Dream state)				
3	SushaptiAvastha सुष्पतअवस्था (Deep sleep state)	26+19=45	26	19	124
4	TuriaAvastha तुरयाअवस्था (Turia state)	16+19=35	16	19	159
5	Turia-ateet तुरयाअतीत Avastha (Transcendental state)	30+19=49	30	19	208
6	Bhagwat Avastha भागवतअवस्था (Goddly state)	27+19=46	27	19	235
7	Brahmi Avastha ब्रह्मीअवस्था (Aternal state)	32+19=51	32	19	267

NOTE: 1. TCV Karma कर्म= 14, factors of values arrange 1 to 14 are 23. TCV chetna = 23.

NOTE: 267 + 23= 290 = 29 x 10

(2)
Basis base values of Vedic Ganita Upsutras

1. Preliminary
   - 1.1 There are 13 Ganita Upsutras.
   - 1.2 Ganita Upsutra 1 is the principal upsutra.
   - 1.3 Upsutras sequentially unfold beginning with Ganita Upsutra 1 and finally Ganita Upsutra 13.
   - 1.4 Basic Sathapatya feature of organization chase of Ganita Upsutras follows Sathapatya of rays of sun accepting reflection of light being the core features.
   - 1.5 Sathapatya features of organization of Ganita Upsutras may be outline as follows:
     - (i) Reflection
     - (ii) Dimonad format of object – image.
     - (iii) Symmetry Sathapatya of object and image.
     - (iv) Pairing format of object and image.
     - (v) Pair of orientations of dimonads.
     - (vi) Glimpsing of pairing features of dimonads as the processing rules.
     - (vii) Distinct Identity of image.
     - (viii) Unified state format of symmetry and asymmetry.

(ix) Sequential integration only upto 7^{th} power.

(x) Folding format of powers.

(xi) Simultaneous existence as manifests as well as unmanifests presence along dimonad format.

(xii) Split of place value in general and of 10 place value in particular.

(xiii) Disciple Shishyaशिष्य (Student) as the whole remainder reservoir (of knowledge) thatis not sustainable within the bounds of reservoir (ofknowledge) of Guru गुरू (Teacher).

Sum Up

1
Intelligence Field with consciousness base

1.1 Mind creates intelligence field of consciousness base. There are seven states of consciousness. The intelligence is qualitatively parallel with the consciousness state of its base.

2
Consciousness state and qualitative intelligence index

2.1 Qualitative intelligence index is parallel with TCV value of the consciousness state formulation transcendental core value as under:-

1	JagritAvastha(जाग्रितआवस्था) (Waking state) 16+19=35	Partaksh Parman(प्रकाशपंमाण) 21+26=47	2,5,11,23,47,95, 95=5x19,114=6x19 6x19+6x18=222, 8 directional frame Chatushpeeth (चतुष्पीठ)(222)
2	SwapanAvastha(स्वपनअवस्था) (Dream state) 25+19=44	Anumaan(अनुमान) 12+20=32 2^5	Param Vyom(परमव्योम)TCV 44 at the center of Chatushpeeth(चतुष्पीठ).Within 4 space 12 edged cube acquires 13th edge. Value 13 = 4+5+4. Value 13 constitutes a reflection pair with value 31. 13+31=44=TCV (Param vyom(परमव्योम)).
3	SushaptiAvasthaसुषप्तआवस्था (Deep sleep state) 26+19=45	Shabad Brahamशब्द् ब्रह्म् 17+28=45	Nav Braham TCV (Nav Brahamनवब्रह्म्) = 45, H6+h6= 22+23=45 7 space origin of 6 space 7 space plays the role of dimension of 9 space
4	TuriaAvasthaतुरयाआवस्था (Turia state) 16+19=35	Udgithउदगीत TCV Udgith=35	8x7 grid accommodates 35 double digit numbers of 6 place value system अक्षरोनामअकारोअस्मिगीताAkshra Nam Akaro – Asmi – Geeta 6 as 1 and 1 as 6 units of 6th space

5	Turia-ateetAvasthaतुरयाअतीतअवस्था (Transcendental state) 30+19=49	MarutGanasमरूतगणTCV 49	6 x 8 grid accommodates 48 double digit numbers of 7 place value system. First triple digit numbers of 7 place value system is equal to 49 of 10 place value system.
6	Bhagwat Avasthaभागवतअवस्था (Goddly state) 27+19=46	Nav Brahamनवब्रह्म् (45) as domain	Hypercube 45 is of 4 folds = 43,44,45,46 43 as (Brahmandब्राह्माण) as dimension 44 as (Paramvyomपरमव्योम) as boundary 45 as (Nav Brahamनवब्रह्म्) as domain 46 as 23+23 as (Anantअनंत) + Anantअनंतas origin
7	Brahmi Avasthaब्रह्मीअवस्था (Aternal state) 32+19=51	Brahmi Chetnaब्रह्मीचेतना 32+23	Ganita Sutras 16 GunakSamuccayasगुणकसमुच्चय of transcendental code value 55 It is the initiation point of mirror line of the lower part of 9 x 11 grid of 10 place value system, being the VMS&T format.

3
Split of 9 x 11 grid

3.1 9 x 11 grid splits as upper part and lower part along the mirror line (10, 20, 30, 40, 50, 60, 70, 80, 90).

3.2 Upper part organizes 29 reflection pairs along the mirror line (11, 22, 33, 44) parallel with the organization of 16 Ganita Sutras and 13 Ganita Upsutras.

3.3 Upper part is the Sathapatya (geometric format) of mathematics of vedic Ganita Sutras and Upsutras.

3.4 Lower part along the mirror line (55, 66, 77, 88, 99).

3.5 Lower part is the Sathapatya (geometric format) of VMS&T.

4
Chatushpeeth Sathapatya of Consciousness state

4.1 First consciousness state of Sathapatya 222 is parallel with 8 directional manifestation of Chatushpeethचतुष्पीठ.

4.2 Center of 8 directional Chatushpeeth as a transcendental seal which sequentially unfolds Sathapatya (geometric formats) of second to seventh consciousness states.

5
It is there & it is not there phenomenon feature Sathapatya

5.1 To be parallel with Ganita Sutras and Upsutras integrated format transition as VMS&T format, one shall sit comfortably and to permit the transcending mind to fully glimpse, comprehend and to imbibe the simultaneous dual feature of existence phenomenon parts marking their presence "being there" and also "being not there".

5.2 Conceptually it be taken as manifest and unmanifest components of the existence phenomenon. In munden and saptal states of visible and non-visible forms in the senses domains.

5.3 The consciousness base of intelligence fields sequentially adds comprehension potentiality of mind domain.

5.4 The following illustrative depictions may help mental comprehension of situations of dual phenomenon of simultaneous existence and also of nonexistence parts:-

(i) Object and its image
Image is there along with object. Images not there as an object.

(ii) Object and shadow
Shadow is there along with object. Shadow is not there as an object.

(iii) Empty set and set of all sets
Empty set is divide of cardinality because of non-presence any elements. However, empty set itself adds to the cardinality of set of all sets.

(iv) Absence and presence because of darkness and light.
Darkness cover disentitles presence of objects in a room while light establishes the presence of the objects of the room.

(v) Portion of a line
Portion A B of a line A Z, makes dual status for portion B Z, as being not there for A B and simultaneously also being there in reference to A B.

(vi) Triple quarter squares and fourth quarter squares
Triple quarter squares completely fix the full square making it as that fourth quarter is there and also that it is not there.

(vii) Presence and absence of 8^{th} subcube

Of the 8 subcubes of cube set up, only seven of them completely fix the set up of whole of the cube, making it as that 8^{th} subcube is not there, and also that it is there.

(viii) Rule one more than before

Rule one more than before takes from "0" to "1", making status of "1" as being previously not there but same being reached, as that, it is there.

Also a reach from 4 x 4 to 4 x 5, in the context of a square as quadruple quarter squares takes to the square format, as the 5^{th} square, along with format square, manifests as quadruple quarter square.

Also a reach from a single "0" to a pair (0, 0), under the rule "one more than before", as value 0 to 0+0 = 0, as a reach from 0 to 0, deserves to be imbibed.

(ix) Dual status of center of a cube

Glimpse of volume of cube, as such, may give arise to, as if center is not there, though, it is there.

Likewise, the central separation plate of 8 subcubes segregating them as a pair of quadruple subcubes, is there, but the same, as a volume of the cube, may not distinctively, mark its pleasure.

Cube as a synthetic set up of 8 sub cubes accepting segregation as a pair of quadruple subcubes each, because of synthetic separation square plate of quadruple quarter squares of structural components (9, 6, 6, 4) maintains its identity of 25 structural components while upper quadruple sub cubes being of 75 structural components and lower part quadruple sub cubes being of only 50 structural components.

It is the presence and non-presence of the central separation plate, which is playing its functional role for maintaining dynamic state for the static state of a cube within a creator space (4 space) because of the transcendental (5 space) seal at the origin seal of 4 space.

6
Transition from integrated format of vedic mathematics to VMS&T format

6.1 The core feature of integrated format of vedic mathematics is that there are 5 Ganita sutras namely Ganita Sutras 1, 8, 9, 15 and 16 whose texts are of 16 letters each and as such pairs of consecutive sutras of 16 letters each are not requiring any bridging from Ganita Upsutras for their transition.

6.2 The core feature of VMS&T format is that there are 3 Ganita Sutras namely; Ganita Sutras 5, 12 and 13, of which the pair of consecutive sutras

12 and 13 being of 20 letters each and same does not require bridging with Ganita Upsutras.

Vedic mathematics Science and Technology
Learning and Teaching take off format

1
Opening Statement

Basis base integrated format of Ganita Sutras and Upsutras transits into vedic mathematics Science and Technology take off format with 6th Sutra being of first placement. The organization of this take off format is of 29 steps of sequential placements for Ganita Sutras and Upsutras as of following organization:-

2
First take off phase

The first, initial take off phase is of reach from "0 to 1". The formulations pair (शून्य Shunya and Ekएक) are of TCV value pair (18, 8). The value pair (18, 8) is parallel with TCV values pair of formulation pair (सृष्टिShrishthi, Akashआकाश). It is also parallel with TCV values of formulations pair (चरणVaran, Ankअंक). The attainment of this take off phase is of transition from "letters alphabet to numbers alphabet".

3
"6 as 1" and "1 as 6"

The transition for the basis base integrated format of mathematics of Ganita Sutras and Upsutras to Vedic Mathematics Science and Technology format for learning and teaching take off is there with availability of "6 as 1" and "1 as 6" units. The first letter of Ganita Sutras is 6th vowel of TCV "6". The parallel Sathapatya geometric format is Hypercube 6, the representative regular body of 6 space in 4 space. With it, the learning and teaching of Vedic Mathematics Science and Technology acquires take off with transition from letters alphabet to Sathapatya (geometric formats) text.

4
Hypercube 6

Hypercube 6 is of 4 folds (4, 5, 6, 7). It is of 13 versions. There are 13 geometries of 6 space. Within 4 space, 12 edged cube acquires 13th edge. The values arrange 1 to 13 is of 21 factors. Formulation Vriti is of TCV 21. Value 21 is of organization 21 = 1+2+3+4+5+6, parallel with the Sathapatya of measuring rod synthesize by Hyper cubes 1 to 6, the representative regular bodies of 1 to 6 space in 4 space.

5
Chitvritiचितवृती

The formulation chitvritiचितवृतीis of TCV value 13 + 21 = 34, parallel with summation value of 4 folds (7, 8, 9, 10) of Hypercube 9, in 4 space.

6
Values arrange 1 to 9

Values arrange 1 to 9 as format is of following features:-

(i) It is of 9 sequential steps.
(ii) It is values arrange 1 to 9.
(iii) Parallel to are the organizations:
  (a) 9 vowels
  (b) Hypercubes 1 to 9
  (c) hypercubes 1 to 9
  (d) space contents D_1 to D_9.
  (e) Numbers 1, 2, 3, 4, 5, 6, 7, 8, 9
  (f) Numbers 1 x1, 1x 2, 1x3, 1x4, 1x5, 1x6, 1x7, 1x8, 1x9.
  (g) Numbers 1 x1x1, 1x1x 2, 1x1x3, 1x1x4, 1x1x5, 1x1x6, 1x1x7, 1x1x8, 1x1x9.
(iv) 4 folds setups.
(v) 5 folds setups.
(vi) 6 folds setups.
(vii) Values arrange 1 to 9 with middle placement value “5” making values arrange 1 to 9 as a format of following features:-
  (a) Middle value 5 permits approach from both ends in 5 steps each.
  (b) Whole range as a pair of sub ranges (1 to 5) and (6 to 9) of summations values pair (15, 30) of format (15 x 1, 15 x 2) of features of 15 linear units and 30 spatial units.
  (c) Numerals 1 to 9 accept conversion as 1, 2, 3, 4, 5, 10-4, 10-3, 10-2, 10-1.
  (d) Transition from numerals (1, 2,3, 4, 5,6, 7, 8, 9) into numerals (-4, -3, -2, -1, 0, 1,2, 3, 4, 5).

(viii) Single digits range 1, 2, 3, 4, 5, 6, 7, 8, 9 transition into double digits range. (01, 02, 03, 04, 05, 06, 07, 08, 09).
(ix) +0, 0, -0.
(x) 5x5
(xi) Quadruple quarters to triple quarters format of a square.
(xii) Surface of a Single face to a surface of a pair of faces.

7
Positive and negative numbers

Positive and negative numbers, both are of same absolute value.

8
Sathapatya of negative numbers

(i) Parallel with Sathapatya of positive numbers, there is a Sathapatya of negative numbers.
(ii) Parallel with Hypercube N, there is a Hypercube (-N).
(iii) Parallel with positive dimensional orders, there are negative dimensional orders.
(iv) Parallel with positive numbers of dimensions, there are negative numbers of dimensions.
(v) Parallel with positive numbers of dimensions of +N dimensional space, there are negative number of dimensions of (-N) space.
(vi) Parallel with *"purnam*पूरण*"*, there is "*apurnam*अपूरण*"*.
(vii) Parallel with *"apurnam*अपूरण*",* there is *"yavdunam*यावदूनम्*"*.
(viii) Parallel with *"Yavdunam*यावदूनम्*"* there is "*Tavdunam*तावदूनम्*"*.

9
Sequential values Sathapatya

(i) Single digit numbers (1, 2, 3, 4, 5, 6…….) are of linear Sathapatya of monads.
(ii) Double digit numbers (01, 02, 03, 04, 05…..) are of spatial Sathapatya of dimonads.
(iii) Triple digit numbers (001, 002, 003, 004, …..) are of solid Sathapatya of trimonads.
(iv) Quadruple digit numbers (0001, 0002, 0003…….) are of hyper Sathapatya of a paired pair of dimonads.

10
Framed domains Sathapatya

(i) Framed domains

Hypercubes are of framed domains Sathapatya of triple frames (a) dimensional frame (b) boundary/enveloping frame, and (c) Seal at the origin.

Earth (Prithvi(पृथ्वी) TCV 25), Tree (Vreksh (वृक्ष) TCV 19), Animal (PashuTCV (पशु)11), Bird (Pakshi TCV (पक्षी)=17, Man (Purush(पुरूष)= TCV 24) as of existence phenomenon within framed domains (bodies).

These framed bodies are having organs like eye (Chakshu TCV (चक्षु)=13), Ear (Shotra(श्रोत्र)= TCV 18) etc. The framed bodies manifest along the Sathapatya (geometric formats) and their organs make constituents of the bodies and the Sathapatya of the organs make the constituents of the Sathapatya of the body.

(ii) Take off from the Sathapatya of organs to the Sathapatya of the body is the proper take off in terms of whose index is going to be the success index of learning and teaching of Vedic Mathematics Science and Technology of basis base mathematics of Ganita Sutras and Upsutras.

11
Transition with dissolution of sequential mental states

Vedic systems follow transition with dissolution of sequential mental states as of five steps as 5 folds (Vriti(वृति):- (i) Parman TCV (प्रणाम) 26 (ii) Viprya TCV (विप्र) 21 (iii) Smiriti TCV (स्मृति)22 (iv) Vikalap TCV (विकल्प)22 (v) Kalap TCV (कल्प)13. For this attainment one is to be Aasin TCV 18 and to do Dhyan TCV (ध्यान)19. Sadhakas fulfilled with intensity of urge to have their proper take off along the VMS&T format shall be parallel with these values of the format features.

VMS&T

(1)

BhardwejVimanShashtra

Formulation Bhardwej TCV (भारद्वाज)33, Viman(विमान)TCV 29, Darpan(दर्पण) TCV 23, Teil(तेल) TCV 16.

(2)

VishwamitraSor Mandal

Formation Vishwamitra (TCV (विश्वामित्र)37), Sor Mandal (TCV (सौरमंडल)44),

(3)

VashishthBrahmDand

Formulation Vashishth TCV (वसिष्ट)23, Formulation BrahmDand (TCV (ब्राहामाण)48)

(4)

KapilMansik Putra Vidhvansh

Formulation Kapil TCV (कपिल)15, Formulation Mansik Putra TCV (मानसिक पुत्र)41, Formulation Vidhvansh TCV (विदवंश)37.

(5)

Chatushpeeth Sathapatya

Formulation Sathapatya TCV 22. Formulation Chatushpeeth TCV (चतुष्पीठ)30.

(6) PanchMahabhoot

Formulation PanchMahabhoot TCV (पंचमहाभूतः)68.

(7) Sapt Rishi

Formulation Saptrishi TCV (सप्तऋषि)26, parallel with summation value of 4 folds of Hypercube 7 representative regular body of 7 space in 4 space.

(8) AshthParakrati

Formulation AshthParakrati TCV (अष्टप्रकृति)29 is parallel within TCV Brahma.

(9) NavBrahm

Formulation NavBrahm TCV 45 = 22+23 = H6+h6, origin of 6 space.

A Judicial Officer in chair is a judge, personified Court

The judicial officer, in chair, as personified Court is to conduct as per law, and the conduct contrary to law of judicial officer makes him liable for the contemjpt of the court he presides.

Vedic mathematics Science and Technology
Learning and Teaching take off format

1
Final Reach

1.1 Final reach of learning and teaching take off format of Vedic Mathematics Science and Technology is the reach from (सौरमंडलSor Mandal) to BrahmJyotiब्रह्म् ज्योति.

2
Sor Mandal

2.1 Formulation Sor Mandal सौरमंडलis of TCV value 16+29 = 45 which is parallel with TCV (नवब्रह्म् NavBrahm).

2.2 Sathapatya स्थापत्या(geometric format) of value 45 is parallel with summation value of four folds (7, 8, 9, 10) of Hypercube 9.

2.3 Four folds (7, 8, 9, 10) as (7 space, 8 space, 9 space and 10 space) lead to (H7, H8, H9, H10) of (15, 17, 19, 21) versions respectively together of summation value 72 parallel with four folds spectra (20, 18, 18, 16) of D20.

3
BrahmJyotiब्रह्म् ज्योति

3.1 Formulation BrahmJyotiब्रह्म् ज्योति is of TCV 28 + 18 = 46, which is of organization 23 + 23.

3.2 Value 46 as origin leads to value 43 as dimension.

3.3 Values quadruple (43, 44, 45, 46) is parallel with four folds of Hypercube 45.

3.4 Quadruple values are parallel with TCV values of quadruple formulation:

(i) Brahmandब्रह्म्माणTCV 43
(ii) Paramvyomपरमव्योम् TCV 44
(iii) NavBrahmनवब्रह्म् TCV 45
(iv) AnantAnantअनंतअनंतTCV 46

4
Sor Mandal and BrahmJyoti

4.1 Formulations pair (सौरमंडलSor Mandal, BrahmJyotiब्रह्म् ज्योति) are of TDV values pair (45, 46).

4.2 Values pair (45, 46) is of the format of 46 as domain and 45 as boundary.

4.3 The Sathapatya स्थापत्य (geometric format) of values pair (45, 46) is also parallel with 45 as domain and 46 as origin.

4.4 One shall sit comfortably and to glimpse and imbibe the distinct organization format features values of the pair of organization:

(i) BrahmJyotiब्रह्म् ज्योतिenveloped by Sor Mandalसौरमंडल

(ii) BrahmJyotiब्रह्म् ज्योतिlively as origin reservoir of NavBrahm domain.

5
To attain mental state for the final comprehension and imbibing reach of mind

5.1 Intelligence field created by mind of base of 7 consciousness states.

5.2 The 7th consciousness state is "Brahmi Chetnaब्रह्मचेतना".

5.3 Formation Brahmi Chetnaब्रह्मीचेतनाis of TCV 55.

5.4 Brahmi Chetna TCV (ब्रह्मीचेतना) =55 is a transcendental state phenomenon and it is a step ahead of the existence phenomenon of Paramvyom TCV(परमव्योम्)=44.

5.5 Value 55 is of first placement of the mirror line of lower part of 9 x 11 grid of 10 placement system manifesting arithmetic of Vedic Mathematics Science and Technology format.

6
Transition from creative format to transcendental format

6.1 Vedic mathematics is of creative (4 space) format.

6.2 Vedic Mathematics Science and Technology is of transcendental (5 space) format.

6.3 Brahmi state ब्रहम्मीस्टेटconsciousness sequentially transits and transforms Chakshuचक्षु(eye) as

(i) CharamChakshuचरमचक्षु(Physical eye of TCV 15 + 13 = 28) parallel with TCV (ब्रह्म् Brahm), within from which flows out upadanउदयपन/manifestation cause material, of TCV 27 parallel with 27 gaps of 28 points range visible to physical eye. The values range 1 to 28 yields 28 + 28 = 56 factors.

(ii) DivyaChakshuदिव्य चक्षु (transcendental light eye) of TCV 17+13=30 parallel with TCV (चतुषपीठ Chatushpeeth), an eight directional frame. The values range 1 to 30 yields 30 + 30 = 60 factors.

(iii) GyanChakshuज्ञानचक्षु(knowledge eye) of 21 + 13 = 34 is parallel with summation value of four folds (7, 8, 9, 10) of Hypercube 9, the representative regular body of 9 space in 4 space.

(iv) Brahm Drishti ब्रह्मदृष्टिformulation is of TCV 28 + 21 = 49 = 7^2, parallel with TCV (मरूतगणः) MarutGana. Value 49 of 10 place value system is parallel with value 100 of first triple digit of 7 place value system. With this glimpsing potentiality one shall be glimpsing reach of Ganita Sutra 1, of one more than before of a reach from Surya/sun of six space body to ध्रुवDhruv/pole star/7 space body.

7

Sathapatya 1 space to 9 space

C1	C2	C3	C4	C5	C6	C7	C8	C9
1	2	3	4	5	6	7	8	9
-1	0	1	2	3	4	5	6	7
0	1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8	9
2	3	4	5	6	7	8	9	10
3	5	7	9	11	13	15	17	19
4	8	12	16	20	24	28	32	36
2+3	6+7	10+11	14+15	18+19	22+23	26+27	30+31	34+35
5	9	13	17	21	25	29	33	37

8

Structural Features

8.1 (i) Space, (ii) space content (iii) space content lump (iv) space content lump domain. (v) Domain as dimension (vi) Domain as boundary (vii) Domain as domain (viii) Domain as origin (ix) Domain as base.

8.2 (i) N space (ii) N dimensions (iii) N – 2 dimension of N space (iv) N – 1 boundary of N space (v) N + 1 as origin of N space (vi) N + 2 as base of N space (vii) 2 N boundary components.

8.3 HN + hn as origin of N space

9

Versions range

9.1 3 Space is of 7 geometries. 7 versions of Hypercube 3 are the representative regular body of 7 geometries of 3 space. 4 space is origin of 3 space. 7 x 4 = 28 is the value of origins of 7 versions range of Hypercube 3.

9.2 Hypercube 3 is of four folds (1, 2, 3, 4) of summation value 10. Hypercube 10 is of 21 versions. 21 x 4 = 84 is the value of the 4 space origin's range.

9.3 4 space is of four folds (2, 3, 4, 5) of summation value 14. Hypercube 14 is of29 versions. 29 x 5 = 195 is the value of transcendental origins of this range.

9.4 5 space is of four folds (3, 4, 5,6) of summation value 18. Hypercube 18 is of 37 versions. 37 x 6 = 222 is the value of self referral origins of this range.

10
Transition by transcendence

10.1 Vedic systems have unique way of attaining transition of a dimensional order space to the higher order dimensional space.

10.2 Quadruple Ushmna letter are of Sathapatya of 2 space, 3 space, 6 space, and 9 space.

10.3 2 space as spatial order of 4 space as origin of 3 space, transcends and gets super imposed upon the linear order of 3 space and makes a solid order of transcendental (5 space) domain.

10.4 3 space as solid order of 5 space as origin of 4 space, transcends and gets super imposed upon spatial order of 4 space domain and makes a transcendental order of unity state (7 space) as domain.

10.5 6 space as self-referral order of 8 space as origin of 7 space transcends and gets super imposed upon the transcendental order of 7 space and makes 5 + 6 = 11 geometries range, as dimension, manifesting 13 geometries range domain.

10.6 9 space as Brahma order of 11 space as origin of 10 space transcends and gets super imposed upon 10 space as dimension of 12 space and makes 9 + 10 = 19 geometries range, as dimension of 21 geometries range domain.

10.7 One shall sit comfortably and took permit the transcending mind to glimpse and imbibe the resultant transition because of transcendence of the dimensional order or origin fold and sane getting super imposed upon the dimensional order of the domain fold and as a

result thereof their ofthere happening resultant transformed domain of synthesized dimensional order of the domain fold and of the origin fold together.

11
Arithmetic of Sathapatya

11.1 Vedic Mathematics in its unique processing steps works out Sathapatya as an arithmetic.

11.2 Numbers range 0 to 10 is approached parallel to 11 geometries range of 5 space geometries as 11 versions of Hypercube 5.

11.3 Parallel with Sathapatya measuring rods of dimensional spaces, the value ranges are approached as number of factors of the numbers ranges.

11.4 Parallel with the dimensional orders, numbers ranges are sequentially approached, as single, double, triple, quadruple, and higher digits numbers formats.

11.5 Single, double, triple and quadruple digit numbers are approached as monads, di-monads, tri-monads and paired pair of di-monads.

12
TCV Dictionary

12.1 Vedic mathematics has reached us as a speaking language of Devnagri alphabets.

12.2 The words formulations of Devnagri alphabets are to be translated in terms of their TCV values.

12.3 One shall prepare one's own TCV dictionary.

12.4 The index of one's comprehension compatibility with Vedic system will be parallel to the index value of one's TCV dictionary.

12.5 One shall regularly update one's TCV dictionary.

13
Reach from TCV Value to its Sathapatya

13.1 One's proficiency of vedic mathematics steps will be of the index of one's success of reach from TCV Value of word formulation to its Sathapatya.

13.2 The Sathapatya, itself is of internal and external folds.

13.3 Further, each dimensional space has its own generic working units.

13.4 Creator space (4 space) is having a pair of generic units. “2 as 1” and “1 as 2”.

13.5 One is to have a final reach of a takeoff from sormandalसौरमंडलto BrahmJyotiब्रह्म् ज्योति.

13.6 One shall place oneself at the origin seat of five space and to glimpse and imbibe transcendental (5 space) domain and to attain transcendence from fourfold creation format of creator space (4 space).

Transcendental Code Values (TCV) Dictionary

Abstract

Vedic systems success is to organize whole range of knowledge as a single integrated discipline as a speaking language of Devnagri alphabet. To reach back from Devnagri alphabet words formations into mathematics of numbers along geometric format for chase of existence phenomenon, within and without frames, including solar universe as well as the existence phenomenon within human frame, we have to transit from letters alphabets to numbers alphabets parallel with the placement values of letters Devnagri alphabets, being designated as transcendental code values of the respective letters. Further, take off, from transcendental code values, is to be of Sathapatya/ geometric formats. For proper comprehension and imbibing, one shall prepare one's own TCV dictionary. Vedic systems comprehension of the individual is going to be parallel with the Savasthya (health) of Sathapatya (geometric formats) of TCV Values of one's TCV dictionary. Evaluation test of the potentialities index of one's TCV dictionary is going to be the values of Savasth Sathapatya (healthy geometric formats) of TCV Values of the Dictionary.

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1.1 Vedic systems are parallel with the existence phenomenon within, as well as, without frames. Learning of vedic knowledge system is to be organization format features and values of Devnagri alphabet.

1.2 Vedic alphabet is of five folds:- (i) letters alphabet (ii) numbers alphabet (iii) Sathapatya (geometric formats); (iii)(a) full unit bodies (iii)(b) half unit bodies (iii)(c) compactified origins sequential folds.

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From individual letters as formulations, to single syllables formulations to words formulations, distinct sequential tables are to be reached for comprehensive wholeness of the TCV Dictionary.

Section 2: ParallelSawasthya (Healthy) Sathapatya (geometric formats)

TCV Values of letters, syllables as well as words have parallel Sathapatya (geometric formats). Such parallel tables are to be reached at for proper applications.

Section 3: Knowledge and organization of knowledge

(i) Vedic systems comprehend the organizing power of the pure knowledge. As such the organization of vedic scripture unfolds parallel with the knowledge domain of the scripture itself.

(ii) TCV Dictionary shall approach every vedic scripture as acomplete knowledge domain in itself. The organization features of the scripture shall be availed as a Sathapatya of the knowledgedomain of the scripture.

Section 4: Transition from integrated format of vedc Ganita Sutras andUpsutras to VMS&T transition format.

Manifested existence phenomenon of our solar universe is of Chatushpeeth format.Each word formulation Sathapatya goes parallel with organization format features of Chatushpeeth. As such TCV Dictionary shall specifically remain focused about this feature in respect of word formulation of a given scripture. The word formulations of a given scripture are to be accepted as of features of structural constituents of the Sathapatya of the scripture.

Section 5: Transition from existence within frames to existence without frames.

The enlightenment component of vedic knowledge is a unique processing characteristic way of approach of vedic system. It is a reach from poreshaya to aporeshaya. Values of vedic knowledge. VMS&T discipline approaches it as a transition from Mansik Putra technology of poreshaya domain to auras putra creations of aporeshaya domain. One way to look at it will be that the intelligence field created by mind is an artificial knowledge domain, while solar universe is creation of natural intelligence domain.

2 Ten folds of TCV

2.1 Vedic system accepts 4 space as creator's space.

2.2 Four head lord Brahma is the presiding deity of 4 space.

2.3 Format features and values of idol of Brahma are parallel with format features and values of Hypercube 4, the representative regular body of 4 space in 4 space.

2.4 Brahma meditates within cavity of his own heart at seat of transcendental lord Shiva and with the grace of transcendental lord, Brahma multiplies as 10 Brahmas.

2.5 Parallel with it are the vedic systems of transition from 4 space to 5 space.

2.6 Accordingly, the transcendental code values are of 10 folds.

2.7 TCV Dictionary is to specifically tabulate 10 folds of TCV values of word formulations.

2.8 These 10 folds of TCV values will help have transition from 4 folds manifested creations of 4 space to 5 folds format of transcendental (5 space) domain.

2.9 Parallel with organization of creative boundary of 10 components of transcendental (5 space) domain, the creative boundary and TCV folds are grouped as of 4 components/4 folds and six components/6 folds.

2.10 Four components of creative boundary accepts fixation as of 4 x 4 = 16 co-ordinates, while remaining six components lead to 6 x 4 = 24 components.

2.11 This organization of values pair (16, 24) is parallel with the format of (उतरUttar TCV 16, Dakshinदक्षिण TCV 24).

2.12 TCV Dictionary is to chase this Sathapatya of 10 folds.

3 Organization of four and six components

3.1 The organization of 4 and 6 components as values pair (4, 6) is parallel with the format of (4 space as dimension, 6 space as domain).

3.2 With strip off of 4 space boundary component, the outer space acquires structural organization of creative (4 space) dimensional order of self – referral (6 space) domain.

3.3 TCV Dictionary is to attend to these applied features of creative dimensional setup of the outer space, the space outside the transcendental (5 space) domain.

3.4 With strip off of 4 space boundary component, will stand created creative (4 space) cosmic windows for the transcendental domain for in flow of self-referral (6 space) content from Surya (sun), a 6 space body.

3.5 There will be as many as 10 creative cosmic windows for the transcendental domain.

3.6 The phenomenon of creation of 10 creative cosmic windows will result into synthesis of 1 to 10 creative (4 space) dimensions of sequential synthesis

values for the first half of range: (4, 6, 6, 4, 0). And for the second half (-6, -14, -24,-36, -50).

3.7 TCV Dictionary shall attend to these synthesis values of 10 folds of TCV Values of word formulation.

4 Ten Folds Sathapatya

(W,S,L,T, TT, FF, F, H, R, SR)

4.1 Ten Folds of word formulation are:

(i) W/Word (1)

(ii) S/Syllables (Number of syllables of the word)

(iii) L/Letters (Number of letters of the word)

(iv) T/TCV (summation value of the TCV Values of letters of the word).

(v) TT/Transcendental transcendence (summation value of TT through thesyllables.

(vi) FF/Frequency of utterance of word formulation (summation value of frequency of utterance of letters of word formulation.

(vii) F/FNF/Formulation numbers' reformulation TCV (summation value of individual letters numbers' formulations TCV Values.

(viii) H/FNH/Formulation numbers' hypercube folds (summation value of formulation numbers' Hypercubes folds summation values.

(ix) R/Transcendence Range of the order of number of the formulation frequency/summation value transcendence ranges of the order of numbers of the formulations frequencies.

(x) SR/Synthesis value of the pair of transcendence ranges of the orders offormulation frequency (summation value of synthesis value of the pair of transcendence ranges of the orders of formulation frequency.

3 Space Vedic Mathematics Science and Technology

Abstract

Existence phenomenon values chase makes vedic system. Existence phenomenon values are the vedic knowledge. Basis base features of vedic knowledge manifest axioms and postulates of vedic mathematics. Vedic mathematics based Sciences and technologies are the vedic sciences and vedic technologies. The essence of values of vedic mathematics vedic sciences and

vedic technologies is the Discipline of Vedic Mathematics, Science and Technology (in short VMS&T).

Existence phenomenon being chased by vedic system is of Sathapatya (geometric format) of Surya (sun) manifesting as sixth elements. Space as 5^{th} element (Earth, Water, Fire, Air and Space) is the space content sheet of 5 space content enveloped within creative content (4 space content) boundary of 10 components, which sequentially unfolds values as Disciplines of 1 space VMS&T to 10 space VMS&T.

3 space VMS&T is the Discipline of 3 space content spread sheet within a 3 dimensional frame. It manifests as Discipline of Hyper cube 3 of full unit and hyper cube 3 of half unit within 4 space.

Introductory

3 - space has 7 geometries. Seven versions of Hyper cube 3 are the representative regular bodies of 7 geometries of 3 space. Each geometry of 3 space has its distinct and distinguishing features. The Discipline of 3 space VMS&T distinctively chase distinguishing features of its all the 7 geometries. Like cube (Hyper cube 3), sphere (Hyper sphere 3) as well is the representative regular body of 3 space. 3 space VMS&T as such is the Discipline of common format of representative regular bodies of 3 space. This format also specifies different characteristic features chased steps of non-regular bodies of 3 space. Representative regular body is approached along common format as a setup of structural components as constituents of manifested body along the format.

Cube as Hypercube 3

Discipline of 3 space VMS&T approaches cube as Hypercube 3 of 4 folds setup (1 space as dimension, 2 space as boundary, 3 space as domain, 4 space as origin), in short (1,2,3,4), 1 space as dimension manifests as a 3 dimensional frame of triple linear axis. 2 space as boundary manifests as spatial boundary of 6 components. 3- space as domain manifests as a synthetic setup of 8 sub domains (sub cubes of 8 octants format of 3 space). 4 space as origin manifests as creative (4 space) seal at center of domain/cube. These structural components together make a setup in terms of which the functional values and features of 3 space VMS&T manifesting as Hypercube 3 are being chased.

Different Roles of 3 space

3 space VMS&T specifically chases different roles of 3 space, firstly, in reference to Hypercube 2 and sequentially further in reference to Hypercubes 4 and 6 within creator (4 space). This, firstly specifies roles of 3 space as origin and secondly as boundary and third as dimension. The tabulation of these roles of 3 space as origin, domain, boundary and dimension, as 4 x 4 grid is as follows:-

0	1	2	3
1	2	3	4
2	3	4	5
3	4	5	6

Extended Roles of 3 space

Extended roles of 3 space being chased by 3 space VMS&T are:-

(i) 3 space as base (5^{th} fold)

(ii) 3 space as format (6^{th} fold)

(iii) 3 space as unity state (7^{th} fold)

(iv) 3 space as natural order (8^{th} fold)

The normal quadruple roles of 3 space as (dimension (1^{st} fold), boundary (2^{nd} fold), domain (3^{rd} fold) and origin (4^{th} fold), together within extended quadruple roles as base (5^{th} fold), format (6^{th} fold), unity state (7^{th} fold) and natural order (8^{th} fold), permit tabulation as under:-

0	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9

Sequential Relationship of 3 space to 9 space

For to be parallel with vedic system, 3 space VMS&T deserves to be sequentially followed for distinct roles of 3 space in the manifestation of Hypercubes 2 to 8 of 4 folds within creator's space (4 space):-

Hypercube	Dimension	Boundary	Domain	Origin
H2	0 Space	1 Space	2 Space	3 Space

H3	1 Space	2 Space	3 Space	4 Space
H4	2 Space	3 Space	4 Space	5 Space
H5	3 Space	4 Space	5 Space	6 Space
H6	4 Space	5 Space	6 Space	7 Space
H7	5 Space	6 Space	7 Space	8 Space
H8	6 Space	7 Space	8 Space	9 Space

0 Space to 9 Space

Different 8 roles of 3 space in Hypercubes 2 to 8, as 0 space to 9 space range, are to be chased as:-

(i) 0 Space to 9 space as values range (0 to 9)

(ii) (0 to 9) as 0 place value and 1 to 9 as numerals of 10 place value system.

(iii) 9 points fixation and 10 directional frame of 3 space body (cube).

(iv) All from 9 and last from 10 rule of Ganita Sutra – 2

Sathapatya (geometric format) of Hypercube 3

3 Space VMS&T specifically chases

(i) Split of a 3 dimensional frame into a pair of 3 dimensional frames of half dimensions.

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Existence Phenomenon with human frame

And

Organization of Adivalmiki Ramayan

TCV Dictionary Tables

Table-1

Kanda Sargas

C1 = Sr.No. C2 = Kanda, C3 = TCV Value formulation of name of Kanda, C4 = sequential summation value of C3, C5 = TCV Value of formulation kanda, C6 = sequential summation value of C5, C7 = TCV Value formulation Sarga, C8 = sequential summation value of C7, R1-R7=Sr.Nos. of first to seventh Kandas

C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**
R1	Baal Kanda Sarga	16+16+11=43	43	16	16	16	16	11	11
R2	Ayodya Kanda Sarga	19+16+11=46	89	19	35	16	32	11	22
R3	Arnaya Kanda Sarga	14+16+11=41	130	14	49	16	48	11	33
R4	Kishkinda Kanda Sarga	29+16+11=52	182	29	78	16	64	11	44
R5	Sundara Kanda Sarga	25+16+11=56	238	25	103	16	80	11	55
R6	Yudh Kanda Sarga	18+16+11=45	283	18	121	16	96	11	66
R7	Uttar Kanda Sarga	16+16+11=43	326	16	137	16	112	11	77

Table-2

Kandawise Sargas

C1 = Sr.No. C2 = Kanda, C3 = Number of Sargas,

C4 = sequential summation of No. of Sargas

C1	**C2**	**C3**	**C4**
R1	Baal Kanda Sarga	77	77
R2	Ayodya Kanda Sarga	119	196
R3	Arnaya Kanda Sarga	75	271
R4	Kishkinda Kanda Sarga	67	338
R5	Sundara Kanda Sarga	68	406
R6	Yudh Kanda Sarga	128	534
R7	Uttar Kanda Sarga	111	645

Table-3

Sargawise Shalokas

C1=Sarga Sr.No., C2 to C8: Sargawise Shalokas of Kanda 1 to 7

C1	C2	C3	C4	C5	C6	C7	C8
1	100	50	23	132	214	19	37
2	43	57	26	29	58	26	34
3	39	49	26	40	52	33	36
4	36	45	33	36	28	125	32
5	23	26	43	33	27	23	46
6	28	28	26	27	43	19	69
7	24	36	24	25	17	25	54
8	24	39	20	46	8	24	29
9	19	66	33	26	74	23	47
10	33	43	23	35	54	30	49
11	30	30	95	93	49	32	52
12	21	113	37	42	25	40	32
13	41	27	25	30	69	21	42
14	60	68	36	22	52	22	30
15	33	48	31	31	52	14	42
16	32	47	43	38	32	26	69
17	36	22	29	52	32	66	38
18	60	41	26	69	32	39	35
19	20	40	27	28	23	42	32
20	29	55	25	25	36	36	33
21	22	64	22	16	34	35	46
22	23	30	24	31	46	90	50
23	22	40	35	30	22	17	341
24	32	38	37	44	48	47	42
25	22	45	45	52	20	33	52
26	36	38	38	41	51	48	59
27	27	24	20	48	62	48	51
28	24	26	33	66	20	44	48
29	32	24	28	33	08	29	40
30	26	47	41	85	44	36	54
31	25	37	50	51	19	45	43
32	26	45	25	22	15	44	73
33	26	31	24	66	31	38	23
34	23	61	25	19	41	28	46
35	23	37	42	23	89	39	65
36	27	33	24	20	47	22	63
37	33	37	25	37	68	37	207
38	24	16	33	36	73	19	32

39	26	41	25	45	54	29	30
40	30	51	27	69	24	30	31
41	26	21	20	50	21	100	22
42	26	35	35	55	43	47	36
43	41	21	51	63	25	47	23
44	22	31	26	17	20	41	21
45	45	33	*	16	17	28	24
46	23	34	37	25	39	50	33
47	22	19	50	14	38	23	18
48	34	37	24	23	62	38	26
49	23	17	40	22	20	33	20
50	25	51	28	40	19	65	20
51	28	*	46	19	45	37	31
52	23	102	43	32	35	39	19
53	26	35	62	27	45	32	26
54	23	43	30	22	52	38	19
55	38	33	37	23	35	31	21
56	25	35	26	24	50	39	29
57	21	34	24	20	52	46	21
58	25	37	20	34	170	60	25
59	22	33	27	28	33	148	168
60	34	23	*	21	21	99	18
61	23	27	32	17	24	40	25
62	28	20	19	15	40	23	21
63	27	53	20	15	33	57	31
64	21	78	76	22	41	36	18
65	38	29	16	34	26	58	39
66	26	29	20	37	15	35	17
67	27	38	30	**50**	37	179	26
68	19	*	38		**29**	24	20
69	18	22	51			100	40
70	45	30	19			67	17
71	24	46	33			111	24
72	25	54	27			19	21
73	37	28	43			69	19
74	24	36	35			73	32
75	28	64	**30**			69	19
76	24	23				95	36
77	**30**	26				25	21
78		26				21	29
79		17				41	20
80		22				43	18

81		16				36	22
82		32				29	20
83		26				44	20
84		17				22	18
85		22				36	22
86		25				35	21
87		24				31	29
88		30				79	24
89		22				53	25
90		24				95	24
91		83				28	29
92		39				66	19
93		27				39	19
94		27				41	32
95		19				54	17
96		31				35	24
97		31				38	27
98		18				26	27
99		42				50	20
100		76				62	25
101		27				57	18
102		09				72	17
103		49				31	17
104		32				28	19
105		43				31	18
106		35				35	18
107		19				67	20
108		18				34	35
109		39				25	22
110		34				26	28
111		32				124	**11**
112		31				25	
113		25				52	
114		28				37	
115		24				25	
116		26				34	
117		27				34	
118		54				23	
119		**21**				38	
120						25	
121						30	
122						27	

123						56	
124						22	
125						46	
126						56	
127						60	
128						**122**	

Table-4

Geeta-Parinam Shaloka

Bhisham Parav 6.43.4-5

C1 = Sr.No., C2= Shalokas of Krishana, C3 : Shalokas of Arjuna, C4 = Shalokas of Sanjay, C5: Shalokas of Dhariteashtra, R1 Geeta Parinam Shalokas, R2=Geeta Text Shalokas, R3=Difference of R1 and R2, R4 : Total difference of R1 and R2.

C1	**C2**	**C3**	**C4**	**C5**
R1	620	57	67	01
R2	574	84	41	01
R3	46	-27	-26	00
R4	46	19	45	45

Table-5

Chapterwise Shalokas of text of Geeta and of Geeta Parinam Shalokas

C1 = Chapter No., C2=Geeta Text, C3 = Geeta Parinam Shalok

C4= Difference of C3 and C2.

C1	**C2**	**C3**	**C4**
1	47	47	0
2	72	76	4
3	43	47	4
4	42	45	3
5	29	31	2
6	47	52	5
7	30	31	1
8	28	30	2
9	34	35	1
10	42	45	3
11	55	63	8
12	20	22	2
13	34	35	1
14	27	30	3
15	20	21	1
16	24	25	1
17	28	30	2
18	78	80	2
Total	700	745	45

Table-6

Wrigveda Samhita

C1= Mandal, C2=Anuvak, C3= Sukhtas, C4=Vargas, C5=Richas

C1	**C2**	**C3**	**C4**	**C5**
1	24	191	100	300
2	4	43	181	724
3	5	62	1211	755
4	5	58	341	2046
5	6	87	122	854
6	6	75	55	440
7	6	104	01	09
8	10	103	10	100
9	7	114	01	11
10	12	191	01	12
Total	**85**	**1028**	**2024**	**10512**

Table-7

Balkhilya Richas of Wrigveda Samhita

C1=Sr.No., C2=Mandal, C3=Sukhta, C4=Richas, C5 = Total Richas

C1	**C2**	**C3**	**C4**	**C5**
1	8	49	1-10	10
2	8	50	1-10	10
3	8	51	1-10	10
4	8	52	1-10	10
5	8	53	1-08	08
6	8	54	1-08	08
7	8	55	1-05	05
8	8	56	1-05	05
9	8	57	1-04	04
10	8	58	1-03	03
11	8	59	1-07	07

$\pi \leq € \geq = \sqrt{} \infty$

GOLDBACH CONJECTURE

PROOF

CONTENTS

GOLDBACH CONJECTURE

PROOF

1. Goldbach[(i)] Conjecture[(ii)]

E = p+q, E≥4, E positive even whole number, p and q are primes.

2. Spatial[(iii)] Order Formulation

F = ½ (E/2 – 2)/ √E, F is frequency (number of) solutions of E = p+q

3. Sathapatya (Geometric Format)

1. Let E = M+M

2. [1 2 3 4 … ……M]

[2M-1 2M-2 2M-3 2M-4… ……M]

3. dr = (r, 2M-r), r = 1, 2, 3, 4 … ……M

4. S = (dr/ dr = (r, 2M-r), r = 1, 2, 3, 4 … ……M)

Cardinality of S = M

4. To reach at

Out of M elements (dr) of S, for truth of Goldbach conjecture, we have to reach at dr = (r, 2M-r), r = prime and 2M-r = prime

5. Numbers relations

(i) E = A x B = √E x √E implies as that if A ≥ √E, then B ≤ √E

(ii) Composite numbers uptil E are having primes uptill √E as factor.

(iii) All composite numbers uptill E can be segregated from all numbers 1 to E in terms of primes uptill √E.

(iv) 1+1/N for N, as ∞, becomes 1.

(v) 1 2 3 4 ……M

½ x2 2/3 x3 ¾x4 4/5x5 ……(M-1/M)xM.

(vi) 1/(1+1/N) for N, as ∞, becomes 1.

(vii) 1 2 3 4 ……M

1x2/1 2x3/2 3x4/3 …….. (M-1)x(M/M-1)

(viii) Numbers range 1 to N has factors 1 to F.

Numbers range 1 x 1 to 1 x N has factor 2 to (F+N).

(ix) 4 = 2+2 = 2 x 2 = (-2) x (-2)

(x) $2^4=4^2$

(xi) 0 = 0 + 0 = 0 x 0 = (-0) x (-0)

6. **<u>Steps to reach at dr = (r, 2M – r), r = prime, 2M-r = prime</u>**

Step	Set	Cardinality	Note
1	S=(dr/dr=(r,2M-r), r=1,2,3,4, … …. …. M	M	Spatial Sathapatya of E = M+M
2	S_1=(dr/dr=(r,2M-r), r=1,3,5, ... (Ods) uptill M	≥ M/2	Composites of factor 2 of set S are removed from S
3	S_1=(dr/dr=(r,2M-r), r=1,5, ... (Ods of 2nd generation where multiples 3 are removed) uptill M	≥ ½ x M x 1/3	Composites of factor 3 of set S1 are removed from S1 Note: 3 as a factor of the upper row of S1 will be at the most 1/3 thereof. Likewise, 3 as a factor of the lower row of S2 as well will be at the most 1/3. As such, dr of S1 where neither "r" nor "2M-r" will be having 3 as a factor and these drs will be at least 1/3 of M/2.
4	S_3=(dr/dr=(r,2M-r), r=1,7,11,13 ... (Ods of 3rd generation where multiples 3 or 5 are removed) uptill M	≥ ½ x M x 1/3x3x5 =1/2xMx1/5	Composites of factor 5 of set S2 are removed from S2 Note: 5 as a factor of the upper row of S2 will be at the most 1/5 thereof. Likewise, 5 as a factor of the lower row of S2 as well will be at the most 1/5. As such, dr of S3

			where neither “r” nor “2M-r” will be having 5 as a factor and these drs will be at least 3/5 of 1/2xMx1/3.
5	…	…	….
6	S_P	**1/2xMx1/p**	

7. Cardinality 1/2xMx1/p ≥ **1/2xMx1/√E**
8. 1/2xMx1/√E ≥ **(1/2) x (E/2) x 1/√E**
9. (1/2) x (E/2) x 1/√E ≥ **√E/4**
10. √E/4 ≥ 1 for E ≥ 16

==========

Table-1

Sargawise Shalokas

C1=Sr.No., C2=Sargas of Kanda, S1 = Sathapatya pf Sargas, S2=contents Sathapatya, S3=Origin Sathapatya, S4 = Domain boundary Sathapatya, S5 = Full unit Sathapatya S6=Half Unit Sathapatya of Sargas

C1	C2	S1	S2	S3	S4	S5	S6
1	100	D_{27}	D_{27}				
2	43	$\mathbf{h_{11}}$					$\mathbf{h_{11}}$
3	39	$\mathbf{h_{10}}$					$\mathbf{h_{10}}$
4	36	D_{11}	D_{11}				
5	23	$\mathbf{h_6}$					$\mathbf{h_6}$
6	28	D_9	D_9				
7	24	D_8	D_8				
8	24	D_8	D_8				
9	19	$\mathbf{h_5}$					$\mathbf{h_5}$
10	33	$\mathbf{H_5+h_4}$			$\mathbf{H_5+h_4}$		
11	30	H_8				H_8	
12	21	$\mathbf{H_3+h_3}$		$\mathbf{H_3+h_3}$			
13	41	$\mathbf{H_6+h_5}$			$\mathbf{H_6+h_5}$		
14	60	D_{17}	D_{17}				
15	33	$\mathbf{H_5+h_4}$			$\mathbf{H_5+h_4}$		
16	32	D_{10}	D_{10}				
17	36	D_{11}	D_{11}				
18	60	D_{17}	D_{17}				
19	20	D_7	D_7				
20	29	$\mathbf{H_4+h_4}$		$\mathbf{H_4+h_4}$			
21	22	H_6				H_6	
22	23	$\mathbf{h_6}$					$\mathbf{h_6}$
23	22	H_6				H_6	
24	32	D_{10}	D_{10}				
25	22	H_6				H_6	
26	36	D_{11}	D_{11}				
27	27	$\mathbf{h_7}$					$\mathbf{h_7}$
28	24	D_8	D_8				
29	32	D_{10}	D_{10}				
30	26	H_7					
31	25	$\mathbf{H_{4+}h_3}$			$\mathbf{H_{4+}h_3}$		
32	26	H_7				H_7	
33	26	H_7				H_7	

34	23	**h_6**					**h_6**
35	23	**h_6**					**h_6**
36	27	**h_7**					**h_7**
37	33	**H_5+h_4**			**H_5+h_4**		
38	24	D_8					
39	26	H_7				H_7	
40	30	H_8				H_8	
41	26	H_7				H_7	
42	26	H_7				H_7	
43	41	**H_6+h_5**			**H_6+h_5**		
44	22	H_6				H_6	
45	45	**H_6+h_6**		**H_6+h_6**			
46	23	**h_6**					**h_6**
47	22	H_6				H_6	
48	34	H_9				H_9	
49	23	**h_6**					**h_6**
50	25	**H_4+h_3**			**H_4+h_3**		
51	28	D_9	D_9				
52	23	**h_6**					**h_6**
53	26	H_7				H_7	
54	23	**h_6**					**h_6**
55	38	H_{10}				H_{10}	
56	25	**H_4+h_3**			**H_4+h_3**		
57	21	**H_3+h_3**		**H_3+h_3**			
58	25	**H_4+h_3**			**H_4+h_3**		
59	22	H_6				H_6	
60	34	H_9				H_9	
61	23	**h_6**					**h_6**
62	28	D_9	D_9				
63	27	**h_7**					**h_7**
64	21	**H_3+h_3**		**H_3+h_3**			
65	38	H_{10}				H_{10}	
66	26	H_7				H_7	
67	27	**h_7**					**h_7**
68	19	h_5					h_5
69	18	H_5				H_5	
70	45	**H_6+h_6**		**H_6+h_6**			
71	24	D_8	D_8				
72	25	**H_4+h_3**			**H_4+h_3**		
73	37	**H_5+h_5**		**H_5+h_5**			

74	24	D_8	D_8				
75	28	D_9	D_9				
76	24	D_8	D_8				
77	**30**	H_8				H_8	

Table-2

Sargawise Shalokas

C1=Sarga Sr.No., C2 to C8: Sargawise Shalokas of Kanda 1 to 7

C1	**C3**	**Sathapatya**					
1	50						
2	57						
3	49						
4	45						
5	26						
6	28						
7	36						
8	39						
9	66						
10	43						
11	30						
12	113						
13	27						
14	68						
15	48						
16	47						
17	22						
18	41						
19	40						
20	55						
21	64						
22	30						
23	40						
24	38						
25	45						
26	38						
27	24						
28	26						
29	24						
30	47						
31	37						
32	45						
33	31						
34	61						
35	37						
36	33						

37	37						
38	16						
39	41						
40	51						
41	21						
42	35						
43	21						
44	31						
45	33						
46	34						
47	19						
48	37						
49	17						
50	51						
51	*						
52	102						
53	35						
54	43						
55	33						
56	35						
57	34						
58	37						
59	33						
60	23						
61	27						
62	20						
63	53						
64	78						
65	29						
66	29						
67	38						
68	*						
69	22						
70	30						
71	46						
72	54						
73	28						
74	36						
75	64						
76	23						
77	26						
78	26						

79	17						
80	22						
81	16						
82	32						
83	26						
84	17						
85	22						
86	25						
87	24						
88	30						
89	22						
90	24						
91	83						
92	39						
93	27						
94	27						
95	19						
96	31						
97	31						
98	18						
99	42						
100	76						
101	27						
102	09						
103	49						
104	32						
105	43						
106	35						
107	19						
108	18						
109	39						
110	34						
111	32						
112	31						
113	25						
114	28						
115	24						
116	26						
117	27						
118	54						
119	**21**						
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128							

Table-3

Sargawise Shalokas

C1=Sarga Sr.No., C2 to C8: Sargawise Shalokas of Kanda 1 to 7

C1	**C4**	**Sathapatya**			
1	23				
2	26				
3	26				
4	33				
5	43				
6	26				
7	24				
8	20				
9	33				
10	23				
11	95				
12	37				
13	25				
14	36				
15	31				
16	43				
17	29				
18	26				

19	27				
20	25				
21	22				
22	24				
23	35				
24	37				
25	45				
26	38				
27	20				
28	33				
29	28				
30	41				
31	50				
32	25				
33	24				
34	25				
35	42				
36	24				
37	25				
38	33				
39	25				
40	27				
41	20				
42	35				
43	51				
44	26				
45	*				
46	37				
47	50				
48	24				
49	40				
50	28				
51	46				
52	43				
53	62				
54	30				
55	37				
56	26				
57	24				
58	20				
59	27				
60	*				

61	32				
62	19				
63	20				
64	76				
65	16				
66	20				
67	30				
68	38				
69	51				
70	19				
71	33				
72	27				
73	43				
74	35				
75	**30**				
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Table-4

Sargawise Shalokas

C1=Sarga Sr.No., C2 to C8: Sargawise Shalokas of Kanda 1 to 7

C1	**C5**	**Sathapatya**		
1	132			
2	29			
3	40			
4	36			
5	33			
6	27			
7	25			
8	46			

9	26			
10	35			
11	93			
12	42			
13	30			
14	22			
15	31			
16	38			
17	52			
18	69			
19	28			
20	25			
21	16			
22	31			
23	30			
24	44			
25	52			
26	41			
27	48			
28	66			
29	33			
30	85			
31	51			
32	22			
33	66			
34	19			
35	23			
36	20			
37	37			
38	36			
39	45			
40	69			
41	50			
42	55			
43	63			
44	17			
45	16			
46	25			
47	14			
48	23			
49	22			
50	40			

51	19			
52	32			
53	27			
54	22			
55	23			
56	24			
57	20			
58	34			
59	28			
60	21			
61	17			
62	15			
63	15			
64	22			
65	34			
66	37			
67	**50**			
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128				

Table-5

Sargawise Shalokas

C1=Sarga Sr.No., C2 to C8: Sargawise Shalokas of Kanda 1 to 7

C1	C6	Sathapatya	
1	214		
2	58		
3	52		
4	28		
5	27		
6	43		
7	17		
8	8		
9	74		
10	54		
11	49		
12	25		
13	69		
14	52		
15	52		
16	32		
17	32		
18	32		
19	23		
20	36		
21	34		
22	46		
23	22		
24	48		
25	20		
26	51		
27	62		
28	20		
29	08		
30	44		
31	19		
32	15		
33	31		

34	41		
35	89		
36	47		
37	68		
38	73		
39	54		
40	24		
41	21		
42	43		
43	25		
44	20		
45	17		
46	39		
47	38		
48	62		
49	20		
50	19		
51	45		
52	35		
53	45		
54	52		
55	35		
56	50		
57	52		
58	170		
59	33		
60	21		
61	24		
62	40		
63	33		
64	41		
65	26		
66	15		
67	37		
68	**29**		
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128			

Table-6

Sargawise Shalokas

C1=Sarga Sr.No., C2 to C8: Sargawise Shalokas of Kanda 1 to 7

C1	C7	Sathapatya
1	19	
2	26	
3	33	
4	125	
5	23	
6	19	
7	25	
8	24	
9	23	
10	30	
11	32	
12	40	
13	21	
14	22	
15	14	
16	26	
17	66	
18	39	
19	42	
20	36	
21	35	
22	90	
23	17	
24	47	
25	33	
26	48	
27	48	
28	44	
29	29	
30	36	
31	45	
32	44	
33	38	
34	28	
35	39	
36	22	

37	37	
38	19	
39	29	
40	30	
41	100	
42	47	
43	47	
44	41	
45	28	
46	50	
47	23	
48	38	
49	33	
50	65	
51	37	
52	39	
53	32	
54	38	
55	31	
56	39	
57	46	
58	60	
59	148	
60	99	
61	40	
62	23	
63	57	
64	36	
65	58	
66	35	
67	179	
68	24	
69	100	
70	67	
71	111	
72	19	
73	69	
74	73	
75	69	
76	95	
77	25	
78	21	

79	41	
80	43	
81	36	
82	29	
83	44	
84	22	
85	36	
86	35	
87	31	
88	79	
89	53	
90	95	
91	28	
92	66	
93	39	
94	41	
95	54	
96	35	
97	38	
98	26	
99	50	
100	62	
101	57	
102	72	
103	31	
104	28	
105	31	
106	35	
107	67	
108	34	
109	25	
110	26	
111	124	
112	25	
113	52	
114	37	
115	25	
116	34	
117	34	
118	23	
119	38	
120	25	

121	30	
122	27	
123	56	
124	22	
125	46	
126	56	
127	60	
128	**122**	

Table-7

Sargawise Shalokas

C1=Sarga Sr.No., C2 to C8: Sargawise Shalokas of Kanda 1 to 7

C1	**C8**	**Sathapatya**
1	37	
2	34	
3	36	
4	32	
5	46	
6	69	
7	54	
8	29	
9	47	
10	49	
11	52	
12	32	
13	42	
14	30	
15	42	
16	69	
17	38	
18	35	
19	32	
20	33	
21	46	
22	50	
23	341	
24	42	
25	52	
26	59	
27	51	

28	48	
29	40	
30	54	
31	43	
32	73	
33	23	
34	46	
35	65	
36	63	
37	207	
38	32	
39	30	
40	31	
41	22	
42	36	
43	23	
44	21	
45	24	
46	33	
47	18	
48	26	
49	20	
50	20	
51	31	
52	19	
53	26	
54	19	
55	21	
56	29	
57	21	
58	25	
59	168	
60	18	
61	25	
62	21	
63	31	
64	18	
65	39	
66	17	
67	26	
68	20	
69	40	

70	17	
71	24	
72	21	
73	19	
74	32	
75	19	
76	36	
77	21	
78	29	
79	20	
80	18	
81	22	
82	20	
83	20	
84	18	
85	22	
86	21	
87	29	
88	24	
89	25	
90	24	
91	29	
92	19	
93	19	
94	32	
95	17	
96	24	
97	27	
98	27	
99	20	
100	25	
101	18	
102	17	
103	17	
104	19	
105	18	
106	18	
107	20	
108	35	
109	22	
110	28	
111	**11**	

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Adi-Valmiki Ramayana

1
Organization format

1. This scripture is of Treta Yuga.
2. This epic is authored by Maharshi Valmiki.
3. It is about Rama incarnation of Lord Vishnu.
4. This scripture is organized as seven Kandas.
5. Each Kanda is composed is Sarga and each Sarga is composed as Shalokas.
6. From beginning to end, the entire scripture is a unified discipline about Rama, the incarnation of Vishnu.
7. The organization of the scripture is parallel with the knowledge of the scripture.
8. The organization and knowledge, both are of Sathapatya (geometries format).
9. The format is parallel with the transcendental content flow format.
10. The transcendental content flows from orb (origin) of the Surya (sun).
11. The transcendental content flows through Surya Rashmi (rays of the sun).
12. The transcendental content through rays of the sun is of Chatushpeeth format.
13. The organization of Adi-Valmiki Ramayana is parallel with this Chatushpeeth format, and as such the same deserves to be followed accordingly.

2
Chatushpeeth Format

1. Chatushpeeth format of sealed origin is an eight directional format.
2. With melting of the seal, there happens sequential transcendence at the origin.

3. Vedic systems chase transcendence at the origin of upward and downword flow of transcendental content along 9^{th} and 10^{th} direction.
4. The emerging ten directional format becomes the basic creation format along which happens manifested creations phenomenon of our solar universe.
5. Vedic mathematics chases this existence phenomenon.
6. This, as such, becomes the basis base mathematics of Discipline of Vedic Mathematics Science and Technology.

3

Transcendence from manifested creation format

1. The enlightenment of knowledge of Adi-Valmiki Ramayana is as to how one is to have transcendence from the manifested creation format of human frame.
2. From purusha to purshotam is the chase range of this domain.

*

Conjecture and Conjuncture

1. NVF (Con**jec**ture) = 114 = NVF (Impluses)
2. NVF (Con**junc**ture) = 136 = (NVF Real Discipline)
3. NVF (Transcendental) = 135 = 136 -1
4. Ganita Sutras 1: “One more than before”
5. Real Discipline is a step ahead of “transcendental”
6. “Conjunction” is a step ahead of “transcendental”
7. “Conjecture” remains uptill “Impulses”, and conjunction is a reality (real discipline) and it is even, a step ahead of “transcendental”
8. 114 = 19 x 6
9. 135 = 27 x 5
10. 136 = 17 x 8
11. The split of transcendental (5 space) domain within creator (4 space) as Northern hemisphere (placement value 17) and Southern hemisphere (placement value 19) is the Sathapatya of the distinguishing features of “conjecture” and “conjuncture”.
12. It is parallel with Turia (4^{th}) consciousness state and transcendental (5^{th}) consciousness state.
13. A step ahead is the real discipline of 6^{th} (godly, Bhagwat) consciousness state.
14. First letter of Ganita Sutra is the 6^{th} vowel/TCV 6 and Ganita Sutra-1 rule is “One more than before”.

*

Ganita Sutras-12 and Ganita Upsutra-2

1. Ganita Sutra-12
2. Simple rendering of text of Ganita Sutra-12

   "Remainder is the digit(s) last.
3. Illustrations

   Let

   (i) M = LD + R, R = 0, 1, 2, 3, … …. (D-1)

   (ii) 2M-1 = 2LD + (R-1), R = 0, 1, 2, 3, … …. (D-1)

   Illustration-1

   Numbers range 1 to M

   Unit 3

   Draw a line A to B

   Have placement of points beginning with A and uptill B with the help of unit 3. There will be 24 points of which first point will be at A and the last 24^{th} point will be at B. In between will be 22 points of 1 unit distance between second to twenty third point on the line, as

   M = 67

   67 = 22 x 3 + 1

   The 24^{th} point is not a full unit away from 23^{rd} point. It becomes the remainder for unit 3 is respect of number 67 and it has placement at the end of a reach uptill and point B.

   Illustration-2

   Parallel Sathapatya manifests for

   M = 68

   68 = 22 x 3 + 2

   Illustration-3

Parallel Sathapatya manifests for

M = 69

69 = 23 x 3 + 0

4. Ganita Upsutra-2

5. Simple rendering of text of Ganita Upsutra-2

"that remains is remainder (noun/by definition)

6. Illustrations

Let,

(i) M = LD + R, R = 0, 1, 2, 3, … …. (D-1)

(ii) 2M-1 = 2LD + (R-1), R = 0, 1, 2, 3, … …. (D-1)

Illustration-1

Let, numbers range be 67 to 133

Draw a line B to A,

place the points on line B to A with unit "3" for numbers range 67 to 133, as

M = 67 = 3 x 22 + 1, and 2M -1 = 133 = 44 x 3 + 1

As such, there will be 24 points on line BA, with first point at B and the last 24^{th} point being at A. In between will be 22 points of placement in reference to units "3".

Let us revisit numbers range 67 to 133.

Of this range number 69 is the first number which has 3 as a factor. And number 132 is the last number of this range being of a factor 3.

Therefore, points 2 to 33 will be of placement of numbers of this range having 3 as a factor.

Let us, revisit this placement organization of 24 points, of which the pair of end points, namely first point of placement at point B as number 67 and the last 24^{th} point of placement

at point A as number 133, make a class of 2 points distinct than that of class of other 22 points of numbers of factor 3. The class of a pair of points B and A, as of numbers, not having 3 as a factor, together make a pair of remainders of placement at the end point of the line BA.

One may have a pause here and take note that, as far as the numbers range 1 to M (1 to 67) of line AB what concerns, there was a remainder only towards point B alone while here in the case of numbers range M to 2M-1 (67 to 133) of placement along line B A is concerned, there are a pair of remainders of placement along both end points B and A. As there are a pair of remainders, as such, as is the dictate of Ganita Upsutra 2, both remainders, being a remainder of values range, the same is to be accepted as a definition that though remainder is in parts but the same by definition are being designated (as a remainder) of the numbers range.

Illustration-2

Parallel Sathapatya manifests for

2M -1 = 135

135 = 45 x 3 + 0

Illustration-3

Parallel Sathapatya manifests for

2M -1 = 137

137 = 45 x 3 + 2 *

Tables

C1= E = M+M, C2 = Unit, C3 = Upper Row Composite Numbers

C4=Lower Row Composite Numbers, C5 Total Composite numbers, C6 = Composite numbers pairs, C7 = Comparison of C6 with M/Unit

C1	C2	C3	C4	C5	C6	C7
134= 67+67	3	1-67 22	67-133 22	44	22	22 ≤ 67/3
136= 68+68	3	1-68 22	68-135 23	45	22	22 ≤ 68/3

Adi-Valmiki Ramayan

7 x 7 Table

1000 = 952 + 48, 48 = 2 x 4 x 6

	C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	
R1	15	19	14	29	25	18	16	
R2	19	14	29	25	18	16	15	
R3	14	29	25	18	16	15	19	
R4	29	25	18	16	15	19	14	
R5	25	18	16	15	19	14	29	
R6	18	16	15	19	14	29	25	
R7	16	15	19	14	29	25	18	
	136	**136**	**136**	**136**	**136**	**136**	**136**	**952**

	C1	C2
R1	15	Solid dimensional frame of 5 space 15 =1 x3x5 TCV (Panch)= 15 TCV (Akash) = 8; 8 points range + 7 gaps thereof makes value 15 Akash (space) is the 5th element/5 space of solid dimensional frame of 5 dimensions making 15 as value of the solid dimensional frame. TCV (Ball) =15 = TCV (Ram)
R2	19	Southern hemisphere placement Sathapatya Within creator's space (4 space), transcendental domain splits into Northern and Southern hemispheres of Sathapatya placement value 17 and 19 respectively. TCV (Ayodhya) = 19
R3	14	4 Space Sathapatya
R4	29	Creator (Brahma)/29 geometries of 14 space
R5	25	Transcendental seal at the origin of spatial order 4 space
R6	18	Transcendental space
R7	16	Spatial order dimensional frame of creator's space
	136	**136**

Vedic Ganita Sutras chase of Existence-Phenomenon within Human frame.

Abstract

Vedas organize whole range of knowledge parallel to existence phenomenon, within and without frames, as a single but integrated discipline. Vedic mathematics is basis base of vedic systems of self-referral format. Mind creates knowledge field of consciousness base, while mind itself is consciousness based of creative organ within human frame itself. Vedic Ganita Sutras chase existence phenomenon within human frame availing spatial order of creator's space (4 space).

Introductory

Vedas have reached us in composed form in Devnagri alphabet. To glimpse and to be parallel with basis base Vedic mathematics, one is to sequentially go parallel with Devnagri alphabet folds: letters, numbers and Sathapatya. To be parallel with the knowledge of individual Vedic scriptures, one is to be parallel with the organization of the scripture itself. And for it, one is to reach from the letters compositions of the word formulations of the text, to its numbers values (designated as Divya Ank Vyavastha/transcendental code value), and a step ahead at the Sathapatya (geometric formats) thereof.

Rigveda Samhita to Charak Samhita

To glimpse and imbibe the organization format features of Vedic Ganita Sutras chase of existence phenomenon within human frame, one is to avail the big range of Vedic chase from Rigved Samhita to Charak Samhita, in collusive of Treta Yuga epic, Adi Valmiki Ramayana, and Dwapar Yuga epic, Ur-Mahabhartam.

Chatushpeeth format

The basis base chase format is the chatushpeeth format manifesting for flow of transcendental content from orb (origin) of Surya (sun) through Surya Rashmi (rays of the sun).

Paramvyom (transcendental space)

At center of the Chatushpeeth is Paramvyom (transcendental space). The existence phenomenon, as such, is the phenomenon of Paramvyom (transcendental space) lively within Vedic Richas (Mantras).

Richas Organization Format

Richas organization format is of values formulations: Rishi (TCV 12), Devta (TCV 26), Chhandas (TCV 19) and Swara (TCV 15).

Vedic Ganita Sutras

Vedic Ganita Sutras first formulation is Eka-adhikena and first letter is the 6th vowel, of TCV 6 and of Sathapatya: 6 space.

Eka-adhikena

Sathapatya of formulation Eka-adhikena is the synthetic format of formulations Rishi (TCV 12), Devta (TCV 26), Chhandas (TCV 19) and Swara (TCV 15).

Purusha to Purushotam

Existence phenomenon within human frame is of purusha (TCV 24) to purushotam (TCV 49) range. This is the coverage range of Gayatri (24 Syllables) to Jagti (48 syllables), parallel with unfolding of creative order dimensional frame of 6 space of value 4 x 6 = 24, to Chatushpeeth/Natural Asth Prakirti

order dimensional frame 6 x 8 = 48 and a step ahead transcendence from 6 space domain to its 7th space origin.

Glimpse 7 space origin of 6 space

Six space is of a creative (4 space) dimensional order and spatial (2 space) dimension of dimension. The formulation Rishi is a composition of triple letters of TCV triple (6, 4, 2) parallel with 6 space domain, 4 space dimension and 2 space dimension of dimension. Rishi (seer) glimpses 7 space origin of 6 space. This is of the format of spatial dimension of dimension format.

Transcendence from double digits numbers format

Double digits numbers of 7 place value system are 48, accommodated by 6 x 8 grid. A transcendence therefrom takes to 49th number, being the first triple digit number of 7 place value system.

01	02	03	04	05	06	
10	11	12	13	14	15	
16	20	21	22	23	24	
25	26	30	31	32	33	
34	35	36	40	41	42	
43	44	45	46	50	51	
52	53	54	55	56	60	
61	62	63	64	65	66	100

Transcendence from spatial grid to solid grid

Transcendence from spatial order grid to solid order grid will take to seven geometries range of 3 space in the role of solid

dimensional of transcendental (5 space) domain. This amounts to a manifestation of a solid order, for spatial order glimpsing knowledge.

Seven States of Consciousness

Knowledge field created by mind/Budhi (TCV 25 = 5^2) acquires a consciousness base of seven states by transcendence from spatial order (2 space as dimension of 5 geometries range of 2 space) to solid order (3 space as dimension of 7 geometries range of 3 space).

Dhruv (Pole star)/Seven space domain

At origin of 6 space is a lively phenomenon of 7 space. Vedic Ganita Sutras chase existence phenomenon within human frame as of a range of Purusha (TCV 24) to Purushotam (TCV 49 = 7x7). Hypercube 7 is of domain boundary formulation A^7: 14 B^6.

*

Ganita Sutras Letters and Sathapatya Formulation

Sutra	Letters	Formulation	Existence Features
1	16	Jeev	
2	28	Brahm	
3	15	Tej (Veray)	
4	17	Atma	
5	20	Dev	
6	20	Ved	
7	24	Purush	
8	16	Aum	
9	16	Gayatri	
10	09	Kaal	
11	14	Shreer	
12	20	Shawet	
13	20	Pushp	
14	17	Dravy	
15	16	Beej	
16	16	Om	

Source Sutra -1 and Source Upsutra – 1

1. Source Sutra-1
   Processing steps
   Sequential progression
   One more than before
2. "Age" Sathapatya of existence
3. Source Up-suptra-1
   Processing Steps
   Symmetry
   Proportionate Progressions
4. Body as synthesized organs Sathapatya
5. Transcendental content flow format as of spatial features of simultaneous pair of opposite orientation parallel progression.
6. Manifestation of transcendental content and transcendence from manifestation to the self-referral domain.

*

Vedic Ganita Sutra-2 Mathematics

Abstract

Vedic Ganita Sutra-2 mathematics is of 10 place value system. Its Sathapatya (geometric format) is creative (4 space) boundary of 10 components of transcendental (5 space) domain. Ganita Sutra-2 together with Ganita Upsutra-2 makes a complete transition from Ganita Sutra-2 to Ganita Sutra-3. For comprehensive view of mathematics domain of Ganita Sutra-2, one may initiate chase beginning with Ganita Sutra-1 and Ganita Upsutra-1. Along integrated format of Ganita Sutras and Upsutras, chased steps from Ganita Sutra-1 to Ganita Upsutra-2 makes a complete system of all place value systems. And a reach ahead of phase value system is of a shift from spatial base to vertical plane format of Ganita Sutra-3. It is with this transition from spatial base to vertical plane, which in a way makes a place for mathematics of Ganita Sutra-2 in the domain of Vedic Mathematics, as an integrated domain of multiple disciplines.

(1)

Vedic Ganita Sutra-2

1.1 Text

1.2 Simple rendering of the text

1.3 Translation of the text

1.4 10 folds of TCV Values of triple formulation

(2)

Structural data of Ganita Sutras-1 & 2 and Ganita Upsutras 1 & 2.

Table

C1=Sutras/Upsutras, C2=letters, C3=Syllables, C4=TCV, C5=VCV,

C1	C2	C3	C4	C5	C6
Sutra-1	16	8	75		

Upsutra-1					
Sutra-2					
Upsutra-2					

(3)

Transition bridges from Ganita Sutra-1 to Ganita Sutra-2

(4)

Transition bridges from Ganita Sutra-2 to Ganita Sutra-3

(5)

Sathapatya (Geometric Format) of 10 place value system

(6)

Values 1 to 10

10.1 Formulations Ek to Dash

R1=Number value, R2=Formulations, R3=TCV, R4=Total TCV

R1	1	2	3	4	5	6	7	8	9	10
R2										
R3	8	16	8	12	15	10	14	11	17	10
R4	8	24	32	44	59	69	83	94	111	121

(7)

Factors of numbers 1 to 10

R1=Number value, R2=Factors, R3=Total factors

R1	1	2	3	4	5	6	7	8	9	10
R2	1	1	1	2	1	2	1	3	2	2
R3	1	2	3	5	6	8	9	12	14	16

(8)

Double digits grid of 10 place value system

(9)

Distinctive features of numbers 1 to 10

Number	Distinctiveness of number
1	Distinctive being the first
2	Distinctive being the first prime, and also being the first even and still further being the only even prime.
3	Distinctive being the first odd prime.
4	Distinctive being the first composite numbers and further of distinctive features as bad 4 = 2+2 = 2 x 2 x (-2) x (-2).
5	Distinctive being half of last value 10. Further, as that it is of middle placement of 9 numerals of 10 place value system.
6	Distinctive being the first perfect number and also being the unique perfect number as that its all proper divisors (1,2,3) are non-composite numbers, and still further as that 1+2+3 = 1 x 2 x 3.
7	Distinctive being the biggest prime of the values range 1 to 10.
8	Distinctive being the first member of the cubes ($1^3, 2^3, 3^3, 4^3,$ .....) ,of a prime 2^3.
9	Distinctive being biggest numeral of 10 place value system, further as that it makes a vertical reflection pair (2^3, 3^2) with 8.
10	Distinctive being the only double digit numbers of values range 1 to 10.

(10)

Quadruple Primes (2,3,5,7)

10.1 There are quadruple primes (2,3,5,7) uptill 10.

10.2 Summation value of these quadruple primes is 17.

10.3 Products of all divisors of first quadruple perfect numbers (6,28,496,8128) are respectively 6^2, 28^3, 496^5, 8128^7).

10.4 Biggest proper prime factors of first quadruple perfect numbers are (3, 7, 31, 127).

10.5 Summation value of above of biggest prime factors (6, 7, 31, 127) is 168 parallel with total 168 primes uptill 1000. Further the value 168 is parallel with 8 self referral (6 space) dimensions frame of 8 space.

10.6 Numbers of proper divisors of first quadruple perfect numbers are (3, 5, 9, 13).

10.7 The summation value of number of above proper factors (3,5,9,13) is 30 which is parallel with the summation value of four folds (6,7,8,9) of Hypercube 8, the representative regular body of 8 space in four space.

(11)

Gaps bridging of discreet values range.

11.1 Ten points range has 9 gaps.

11.2 Ten place values system has 9 numerals.

11.3 Each of ten creative (4 space) boundary components of transcendental (5 space) domain has 9 versions.

11.4 Values pair (9, 10) is of summation value 19 parallel with placement value of Souther hemisphere of transcendental (5 space) domain of with creative (4 space).

11.5 Values pair (9,10) is of the format of 9 space boundary of 10 space domain.

11.6 Values pair (9,10) is also of the format of 10 space as origin of 9 space.

11.7 Values triples (10,9,10) and (9,10,9) are of summation values pair (29,28) parallel with TCV Values pair (29,28) of formulation pair (Brahma), (Braham).

11.8 Value 57 is of the organization 3 x 19 of Sathapatya of a 3 dimensional frame of axis value 19 of h5 (Southern hemispehere).

11.9 The summation value 57 of values pair (29,28) is parallel with TCV 57 of the formulation (Braham-Nirvan).

Self review of fitness

(1) Self-review of phase I papers.

(2) Self-review of phase II papers.

(3) Self-review of phase III papers.

Self Reviews of phase I papers

1. List of papers
2. Glossary
3. Outline – abstract, introductory, contents, sum-up/ conclusion.
4. Mathematical domain
5. Results
6. Concepts
7. Mathematics
8. Source Values
9. References
10. Inter relationship of papers of Phase I.
11. Inter relationship with papers of Phase II.
12. Inter relationship with papers of Phase III.

Glossary

Vedic mathematics

Vedic Ganita Sutras

Goldbach Conjecture

Proof

1. Technical Terms

1.1 Conjecture
1.2 Statement
1.3 Spatial Order
1.4 Spatial Order Proof
1.5 Even (Nos.)
1.6 Prime (Nos.)
1.7 Odd (Nos.)
1.8 Pair of Nos.
1.9 Paired pair of Nos.
1.10 Set
1.11 Cardinality of set
1.12 Composite (Nos.)
1.13 Factors of a number
1.14 Pair of primes
1.15 Paired pairs of primes
1.16 Equation E=p+q
1.17 Solution of equation
1.18 Point
1.19 Structured point
1.20 Infinity
1.21 Infinite infinities
1.22 Line as a format of infinite points
1.23 Surface as a format of infinitely infinite points
1.24 Surface as a format of infinite lines
1.25 Surface as a format of infinite structured points
1.26 Space accommodates infinite surfaces
1.27 Space accommodates infinitly infinite lines
1.28 Unit “1”
1.29 Unit “2”
1.30 Unit “0”
1.31 Linear Axis
1.32 Spatial Axis
1.33 Linear Order 3 space
1.34 Spatial Order 4 space
1.35 Zero order 2 space
1.36 Zero unit

2

E=M+M

2.1 E=M+M

2.2 M as M points

2.3 M as a set of M points formatted along a line

2.4 E as a set of a pair of lines of M points each formatted along a pair of lines.

2.5 E as a formatted pair of banks of a river

2.6 Pair of banks designated as upper bank and lower bank

2.7 Both banks as a pair of parallel lines

2.8 M points formatted sequentially on the upper bank, and M points formatted sequentially on the lower.

2.9 M points of the upper bank and M points of the lower bank accept sequential pairing, as a M pairs.

2.10 Let, M paired points be designated as d_1, d_2, d_3 …….. d_m.

2.11 Set of M, d_r', r = 1,2,3 …… M is of a paired pairs (r, 2m-r), if the upper bank is sequentially enumerated as 1, 2, 3 ….. m and the lower bank is sequentially enumerated in reverse orientation as M, M+1, M+2, …….. 2M-1.

2.12 Let these d_r', strings coordinating pair of end points (r) 2M- R.

2.13 Let there be middle knots of these strings designated as K1, K2, K3 …. ….. KM.

2.14 Let these middle knots (K1, K2, K3 ……. KM) be stringed by a rope.

2.15 Let, set K be a set of M knots (K1, K2, K3 ……. KM).

2.16 Cardinality of set K is M. *

3

M knots

3.1 As single knot, these are M in number.

3.2 As pairs of knots, these are M/2 paired knots, if M is even, and otherwise, in case of M odd, is the last knot will remain single, while other (M-1) knots, make (M-1)/2 pairs.

3.3 Likewise, we can organize grouping of knots as triples, quadruples, panta, hexa as so on.

3.4 The organization as triple, may have singles, are duals as remaining out of grouping as triples.

3.5 Likewise, may be the phenomenon of remainders for grouping as quadruples, panta, etc.

3.6 The happening of remainders is parallel with the happening of remainders of divisors 2, 3, 4, 5 as so on. As 1, 2, 3, 4 and so on number of respective remainders of divisors 2, 3, 4, 5.

*

4

Prime Divisors

4.1 Composite uptill E are having primes uptill √E.

4.2 Divisors 2, 3, 5, …… P Prime uptill √E.

4.3 Each knot be at the middle of a string of end values (r, 2M – r), as such, it will be of a middle value 1/2 (r + 2M-r) =2M/2=M.

4.4 There are M knots of value M each.

4.5 It makes an organization M x M.

4.6 M x M grid points, when sequentially arranged these make a set up for the diagonal as of placements of value M at each of the M points.

1	2	3	4	…… M.
2	3	4	5	…….. M+1.
3	4	5	6	…….. M+2.
-	-	-	-	
-	-	-	-	
M	M+1	M+2	M+3	2M-1

4.7 The diagonal of above grid is of M points with placements of value M at each of its points.

4.8 The number of points of each row, as well as of each column and of both diagonal are equal (M).

5

Structured Points

5.1 Each domain as a point domain is a structured point of structures of the domain.

5.2 Plane/Surface/2 space domain is of a zero order/zero space as dimensions of 2 space.

5.3 2 Space is spatial dimensions of creator's space (4 space).

5.4 As such zero domain points of all domain get formatted upon the points of the surface.

5.5 Spatial order gives rise to a pair of distinct generic units namely, "2 as 1" and "1 as 2".

5.6 The pair of generic units of spatial order, as such make (1/2) as a working unit.

5.7 Linear order 3 space has only single generic unit, namely "1 as 1", as such 3 space unit is "1".

5.8 Ganita sutra 1 "one more than before", together with Ganiya Upsutra 1 rule of symmetry helps transit from working rule, 1, 2 working unit "1/2".

5.9 Spatial order proof avails all these features of half as a working unit.

*

7

Proof: Central Steps

7.1 Let, there be E points

7.2 Let, E = M+M

7.3 Let, there be M points

7.4 Let, M points be organized as paired points

7.5 There will be a M/2 paired pairs if M is even and for M odd, there will be left out the last point, as a remainder point.

7.6 Let, M/2 paired points as points, be further organized as triple.

7.7 It will make M/2 x 1/3 as triples for M having 3 as a factor, and otherwise it will have, left out remainders, as single or as a pair of points.

7.8 A step ahead, let the organization be as pantas, heptos ... ... in the sequence of primes 2. 3, 5, 7, 11, ...