
Phase 8

**VALUES (Axioms & Postulates)
OF VEDIC GANITA SUTRAS**

Phase 8.2

**Transition from first letter to second letter
of Vedic Ganita Sutras text**

*Dr. Sant Kumar Kapoor,
Ved Ratan*

Abstract

Vedic Ganita Sutras text is of 16 Sutras and 13 Upsutras. Both Ganita Sutras, as well as Ganita Upsutras accept self-referral formats of distinct features but are complementary and supplementary of each other.

These formats also accept integrated format. Ganita Sutras text is a sequential composition of 283 letters while Ganita Upsutras 13 is sequential combination of 236 letters. Integrated format is sequential composition of $283 + 236 = 519$ expressed letters and 1 unmanifest format letter. The first 16 letters of Ganita Sutra 1 are the first 16 letters of integrated format of Ganita Sutras and Upsutras. First letter is of values and features of 6-space Sathapatya while second letter is of 4-space Sathapatya which unfolds sequentially firstly as of unit 1 being of value 1 and secondly unit 1 being of value 4.

The transition from first letter to second letter and as of reverse orientation from first letter to second letter is of features and formats of '1 as 4' and '4 as 1'.

The working unit of the system emerges as of value '1/2'. Because of spatial order 2-space as dimension (4-space), 6-space is of creative (4-space) order. The spatial order of 4-space is of zero order. This split and integrates of 4-space domain, as well as of 6-space domain are parallel with 0-space order of 2-space and spatial order of 4-space and creative order of 6-space. Domain as a whole is of pair of orientations.

Split of domain into a pair of half units domain, as well are of pair of orientations, however the pair of orientations of first half and of second half interse themselves are of opposite placements, as much as taking first half as of positive and negative orientations sequence, then the second half is of negative and positive orientations. Values pair (6, 4) are of features as that (4, -4) and (6, -6) split into [(2, 2), (-2, -2)] and [(1, 2, 3), (-1, -2, -3)]. In case of number value 4, $2 + 2 = 2 \times 2 = (-2) \times (-2)$. But $(-2) + (-2) = -4$. In case of values 6, $1 + 2 + 2 = 1 \times 2 \times 3$ and $(-6 = (-1) + (-2) + (-3) = (-1) \times (-2) \times (-3)$.

The pair of hemispheres of 6-space stand integrated parallel with features of number values pair (6, -6) while the pair of hemisphere of 4-space stand integrated parallel with features of number values pair (4, -4). Four space being the origin of 3-space, as such the integration of pair of hemispheres of Earth are worked out by Vedic Mathematics as per the values and Sathapatya of (4, -4), while the pair of hemispheres of Sun are worked out as per the values and features of (6, 6).

1. 36 distinct letters text

Vedic Ganita Sutras text (*VGS-T*) is a composition of 36 letters :

36 Distinct Letters

of letters of the text with TCV value

C1 = serial number, C2 = letter, C3 = TCV value

C1	C2	C3
1	अ	1
2	इ	2
3	उ	3
4	ऊ	6
5	ऋ	4
6	ए	6
7	ओ	7
8	ऐ	8
9	आ	2
10	ई	4
11	क्	1
12	ख्	2
C1	C2	C3
13	ग्	3

14	ड्	5
15	च	2
16	ज	4
17	ञ	6
18	ट्	3
19	ण्	7
20	त्	4
21	थ्	5
22	ड्	6
23	ध्	7
24	न्	8
C1	C2	C3
25	प्	5
26	भ्	8
27	म्	9

28	य्	1
29	र्	3
30	ल्	5
31	व्	7
32	श्	2
33	स्	3
34	ष्	6
35	■	9
36	■	13

2. First and Second letter

First letter of VGS-T is 'ए', sixth 'स्वर / Swara' / vowel. It is at serial number 6 of above distinct letters table of VGS-T. The second letter of VGS-T is 'क्', 'व्यजन / Vyajan' / first consonant. It is at serial number 11 of above distinct letters table of VGS-T.

3. Transition from first letter to second letter of VGS-T

Far to be parallel with the transition from first letter to second letter of VGS-T, the following features' values formats are to be appreciated.

Table
Table of format of
parallel features values

SN	format	First letter ए	Second letter क्
1	VGS-T placement	i स्वर Vowel ii Sixth	i व्यजन Consonant ii First
2	TCV	i (स्वर) = 15 ii (ए) = 6	ii (व्यजन) = 29 iii (क्) = 1
3	Sathapatya	i h4 = 15 ii H2 = 6	i h 7 ½ = 29 ii h ½ = 1
4	Manifestation	i 15 = G_{15}^7 ii विष्णु Vishnu TCV (विष्णु) = 25 25 = 15 + 10 Range 1 to 15 is of 1 to 25 factors iii Vishnu is overlord Of 6-space. iv Hyper cube 6 is of four folds (4, 5, 6, 7)	i 29 = G_{29}^{14} ii ब्रह्मा Brahma TCV (ब्रह्मा) = 29 iii Brahma is overlord Of 4-space. iv 4-space is dimension fold of 6-space domain.

4. Creator Space

- (i) Space (s) as manifestation of space content (s) is / are of a dimensional order (s).
- (ii) Space – 4 is of a spatial (2-space) order (dimension).
- (iii) Space as of space content D_N manifestation features format is of simultaneous values of Domain fold and Dimension fold.
- (iv) Space – 4 being of spatial order is expression of manifestation of feature and format $4 + 2 = 6$, D6 content.

5. Values pair (4, 6)

- i. First pair of letters of VGS-T (क्, ए) is of TCV values pair (4, 6) and also is of manifestation features of 6-space domain and 4-space dimension.
- ii. Number value 4 is of features :
 (a) $4 = 2 + 2$ (b) $4 = 2 \times 2$ (c) $4 = (-2) \times (-2)$
 (d) $(-2) + (-2) = (-4)$
- iii. Number value 6 is of features :
 (a) $6 = 1 + 2 + 3$ (b) $1 \times 2 \times 3$
 (c) $(-6) = (-1) + (-2) + (-3)$, (d) $(-6) = (-1) \times (-2) \times (-3)$
- iv. In case of number value 4, it is not only ‘addition’ and ‘multiplication’ operations / values formats get super imposed and unified, but also the orientation reversal (addition to minus), as well gets super imposed and unified for multiplication operation but not for the addition operation.
- v. In case of number value 6, addition and multiplication operations get super imposed and unified. However in case of value 6, addition and multiplication operation get unified for (positive orientation), and also for (negative orientation).
- vi. It is distinctive feature of positive and negative orientations for addition and multiplication operations for number values 4 and 6, which makes values format of first and sixth letters being of distinct characteristics.

6. Sathapatya of Number values pairs (4, -4) and (6, -6)

Number Values Pair (4, -4) and its Sathapatya (4 space), (-4 space), and number values pair (6, -6) and its Sathapatya (6 space), (-6 space) in case of split of 4-space (origin of Earth) domain as a pair of hemispheres and in case of split of 6-space (domain of Sun) domain as a pair of hemispheres, are of distinct characteristics which makes characteristically different Mathematics, Sciences & Technologies. Earth has of unified origin of integrated pair of hemispheres, and Sun as of unified domain of distinct pair of hemispheres is / are the feature (s) which are specifically taken care of by mathematics of Vedic Ganita Sutras and it is in this context, the sequential order of the letters of the text has its inherent basis base core format value.

Sri Vaman Puran, is one of the source scripture, of applied values of pure values knowledge of Vedic Mathematics, Science & Technology of range of integrated pair of hemispheres of Earth of 4-space origin and of a pair of hemispheres of integrated 6-space domain (Sun).

Formulation वामन Vaman is a composition of 6 letters (व् आ म् अ न् अ) which has 3 syllables (वा म न) are of TCV values triple TCV (वा) = 9, TCV (म) = 10, TCV (न) = 9 / (9, 10, 9) of summation value 28 = TCV (ब्रह्म).

Values range 1 to 28 is of 56 factors. Value 56 = 28 + 28 ; 28 = 14 + 14, 56 = D16, a space content which manifests as space 14 domain within its dimensional frame within creator's space of spatial order. The values triple (9, 10, 9) along spatial formats for the 'middle' results into transition and transformation as of quadruple format (9, 10, 10, 9) as a format for a split as pair of half ranges of values 9 + 10 = 19 and 10 + 9 = 19.

19 = एकोनविंशति is of TCV (एकोनविंशति) = 50 ; 1 to 28 is of factors 28 + 28 and 1 to 29 is of factors 29 + 28.

The values triple 29, 50, 28 as of summation value 107 is parallel with TCV value of text of Vedic Ganita Sutra 2 'निखिलं नवतश्चरमं दशतः' ; TCV (निखिलं) = 29, TCV (नवतश्चरमं) = 50, TCV (दशतः) = 28.

7. Value (5), Values pair (4, 6) and values triple (4, 5, 6)

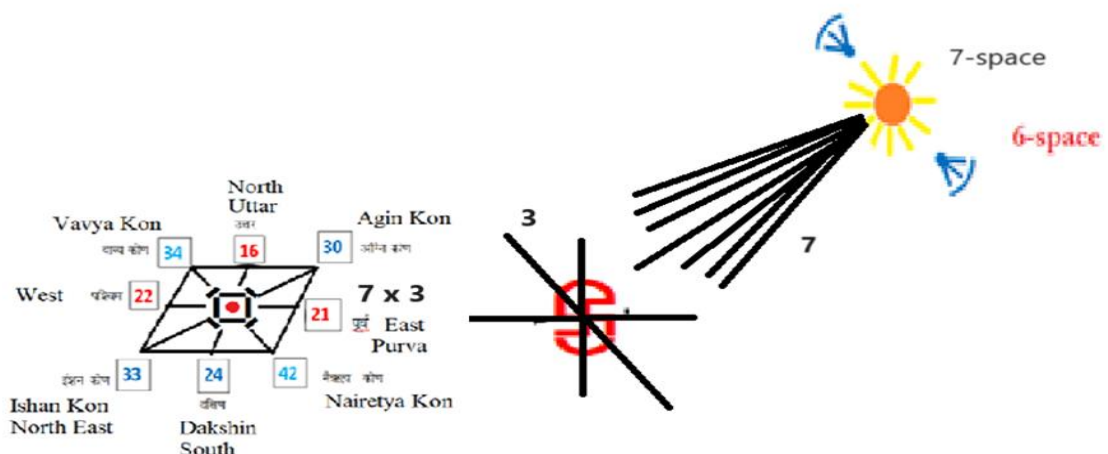
Transition from first letter (ए) to second letter (क्) of VGS-T as values pair (4, 6) brings to focus the in between value (5). The Sathapatya of reach from 4-space to 6-space, as a jump over 5-space, is attainable only by scaling 5-space as a transition and transformation bridge format.

Values pairs (4, 5) and (5, 6) bring to focus :

- (i) Values range (1, 2, 3, 4) is of 5 factors
- (ii) Values range (1, 2, 3, 4, 5) is of 6 factors
- (iii) $2 + 3 = 5$ and $2 \times 3 = 6$.
- (iv) $4 = 2 + 2$, $5 = 2 \frac{1}{2} + 2 \frac{1}{2}$, $6 = 3 + 3$
- (v) With a shift from full units range (0, 1, 2, 3, 4, 5, 6) to half units range: $\frac{1}{2}$, 1, $1 \frac{1}{2}$, 2, $2 \frac{1}{2}$, 3, $3 \frac{1}{2}$, 4, $4 \frac{1}{2}$, 5, $5 \frac{1}{2}$, 6, $6 \frac{1}{2}$), is a transition feature with a focus upon the middle of a pair of ends.

8. Middle of a pair of ends

Formulations आदि *Aadi* / beginning, मध्य / *Madhya* / middle and अन्त *Anth* / end are of TCV values triple (10, 19, 14) of summation value $10 + 19 + 14 = 43 = \text{TCV}$ (ब्राह्ममाण *Brahmand*) / Universe. This is of a reach from पूर्व *Purva* / East to पश्चिम *Pacshim* / West as of TCV values pair (21, 22) of summation value 43.



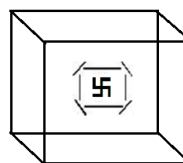
1	21	30	16	34	22	33	24	42	222
2	9	14	18	12	11	9	18	21	112
3	5	4	6	1	2	9	3	12	42
4	1	2	5	1	7	6	9	7	38
5	1	3	4	6	1	3	2	6	26
6	2	1	2	5	2	1	4	5	22
7	1	1	3	3	1	3	1	3	16
8	0	2	0	2	2	2	2	2	12
9	2	2	2	0	0	0	0	2	8
10	0	0	2	0	0	0	2	0	4
11	0	2	2	0	0	2	2	0	8
12	2	0	2	0	2	0	2	0	8
13	2	2	2	2	2	2	2	2	16
14	0	0	0	0	0	0	0	0	0
	46	63	64	66	52	70	71	102	534

With shift from full to half unit value 6 range, as of 13 values range, is parallel with solar universe phenomenon as manifestation of transcendental (5-space content) flow from orb / core / origin of Sun through Surya Rashmi (rays of Sun) into creative dimensional order framing the Brahmand universe within 8 directional frame.

Sathapatya of values triple (10, 19, 14) is of format features :

(i) 10 = H3, (ii) 19 = (h5), (iii) 14 = H4, of middle being of in between placement of Hyper cube 3 and of Hyper cube 4.

Hyper cube 3 is representative regular body of 3-space. Hyper cube 4 is representative regular body of 4-space.



4-space is the origin of 3-space.¹⁹

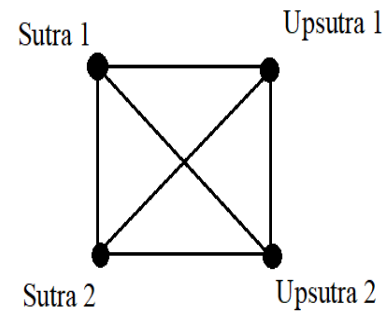
Hyper cube 4 is of 9 versions, as representative regular bodies of 9 geometries of 4-space of spatial order.

The spatial order is of reach G_9^4 at first phase
and at second phase is of reach G_{19}^9

9. System as a sequential steps

Vedic Ganita Sutras text is as a system brings to focus.

- i. Text is to be sequentially approach
- ii. From first letter to second letter
- iii. Value 1 to Value 2.
- iv. 1-space to 2-space
- v. 1 as previous stage value of 2.
- vi. 1 having 0 as a previous value.
- vii. First stage as positive orientation and second stage as negative orientation.
- viii. First stage as a base and second stage as index.
- ix. First stage as Sutra 1 and second stage as sutra 2.
- x. First stage as Sutra 1 and second stage as Upsutra 1
- xi. First stage as linear order and second stage as spatial order.
- xii. From Sutra 1 reach will be to Upsutra 1 as well in reverse orientation
From sutra 1 reach will be to Sutra 2, as well in reverse orientation.
From Sutra 1 to Upsutra 2 and as well in reverse orientation.
From Upsutra 1 to Sutra 2 and as well in reverse orientation.
- xiii. The above sequential setting of steps can be of number of letters syllables TCV values, Sathapatya



10. Sequential steps of eight directional frame

- (i) Values pair (21, 22); $22 = 21 + 1$
- (ii) Values pair (16, 24) = (2 x 8, 3 x 8); $3 = 2 + 1$
- (iii) Values pair (30, 33) = (3 x 10, 3 x 11); $11 = 10 + 1$
- (iv) Values pair (34, 42) = (34, 34 + 8); TCV (एक) = 8.

11. Composition data of text of Vaman Puran

Vaman Puran is the source scripture of applied values of pure values of Vedic Knowledge systems chase of existence phenomenon of 6-space in its both orientations but with a focus upon southern hemisphere, which is of opposite orientation format vis-à-vis northern hemisphere orientation.

Here below, at this stage only is being tabulated the organization format of the text of Vaman Puran. Further Vedic mathematics values being availed here in this scripture to be worked out in the papers following this paper. Vaman Puran is a scripture of 95 chapters. The text which has reached us and published as scripture no 1432 by Geeta Press, Gorakpur (India) is a scripture of 5793.

Table 1

Table of 95 Chapter wise number of Shalokas and Sathapatya
C1 = Chapter, C2 = Shaloka, C3 = Grand Total, C4 = Sathapatya

1	30	30	H8
2	55	85	h14
3	51	136	h13
4	57	193	h 14 ½
5	61	254	h 13½
6	107	361	h27
7	65	426	h 14½
8	72	498	D20
9	52	550	D15
10	57	607	h 13½
11	58	665	H15
12	56	721	D16
13	58	779	H15
14	124	903	D33
15	63	966	h16
16	64	1030	D18
17	72	1102	D20
18	37	1139	h 8½
19	44	1183	D13
20	52	1235	D15
21	61	1296	h 15½
22	59	1355	h15
23	21	1376	h 5½
24	38	1414	H10
25	23	1437	h6
26	1	1438	h ½
27	37	1475	h 9½
28	16	1491	D6
29	49	1540	h 12½

30	44	1584	D13
31	91	1675	h23
32	24	1699	D8
33	21	1720	h 5½
34	50	1770	H13
35	56	1826	D16
36	78	1904	H20
37	40	1944	D12
38	23	1967	h6
39	40	2007	D12
40	43	2050	h11
41	34	2084	H9
42	30	2114	H8
43	86	2200	H22
44	36	2236	D11
45	31	2267	h8
46	56	2323	D16
47	163	2486	h41
48	35	2521	h9
49	49	2570	h 12½
50	11	2581	h3
51	75	2656	h19
52	71	2727	h18
53	62	2789	H16
54	77	2866	h 19½
55	88	2954	D24
56	73	3027	h 18½
57	104	3131	D26
58	120	3251	D32

59	47	3298	h12
60	79	3377	h20
61	77	3454	h 19½
62	59	3513	h15
63	86	3599	H22
64	79	3678	h20
65	169	3847	h 40½
66	64	3911	D18
67	59	3970	h15
68	66	4036	H17
69	162	4198	H41
70	96	4294	D26
71	42	4336	H11
72	76	4412	D21
73	51	4463	h13
74	50	4513	H13
75	52	4565	D15
76	49	4614	h 12½
77	57	4671	h 14½

78	90	4761	H23
79	83	4844	h21
80	39	4883	h10
81	33	4916	h 8½
82	46	4962	H12
83	74	5036	H19
84	84	5120	D23
85	121	5241	h 30½
86	51	5292	h13
87	29	5321	h 7½
88	59	5380	h15
89	48	5428	D14
90	115	5543	h29
91	68	5611	D19
92	18	5629	H5
93	76	5705	D21
94	71	5776	h18
95	17	5793	h 4½

Table 2

Table of 67 distinct ranges of number of Shalokas and Sathapatya
C1 = serial number, C2 = Shaloka, C3 = Chapter number, C4 = Sathapatya

1	26	1	h ½
2	50	11	h3
3	28	16	D6
4	95	17	h 4½
5	92	18	H5
6	23	21	h 5½
7	25	23	h6
8	32	24	D8
9	87	29	h 7½
10	1	30	H8
11	45	31	h8
12	81	33	h 8½
13	41	34	H9
14	48	35	h9
15	44	36	D11

16	18	37	h 9½
17	24	38	H10
18	80	39	h10
19	37	40	D12
20	71	42	H11
21	40	43	h11
22	19	44	D13
23	82	46	H12
24	59	47	h12
25	89	48	D14
26	29	49	h 12½
27	34	50	H13
28	3	51	h13
29	9	52	D15
30	2	55	h14

31	12	56	D16
32	4	57	h 14½
33	11	58	H15
34	22	59	h15
35	88	59	h15
36	5	61	h 15½
37	53	62	H16
38	15	63	h16
39	16	64	D18
40	7	65	h 14½
41	68	66	H17
42	91	68	D19
43	52	71	h18
44	8	72	D20
45	56	73	h 18½
46	83	74	H19
47	51	75	h19
48	72	76	D21
49	54	77	h 19½

50	36	78	H20
51	60	79	h20
52	79	83	h21
53	84	84	D23
54	43	86	H22
55	55	88	D24
56	78	90	H23
57	31	91	h23
58	70	96	D26
59	57	104	D26
60	6	107	h27
61	90	115	h29
62	58	120	D32
63	85	121	h 30½
64	14	124	D33
65	69	162	H41
66	47	163	h41
67	65	169	h 40½

Table 3

- i. Smallest range of shalokas - 1
Value 1 accepts organization - $1 = 1^2$
- ii. Biggest range of shalokas - 169
Value 169 accepts organization - $169 = 13^2$
- iii. Value 13 is parallel with TCv (सूर्य Surya)
- iv. 13 versions of hyper cube 6 are of signatures range (-6, -5, -4, -3, -2, -1, 0 for southern hemisphere and (0, 1, 2, 3, 4, 5, 6 for northern hemisphere.
- v. Both -6 to 0 and 0 to 6 are 7 steps long ranges.
- vi. Total number of shalokas are - 5793
- vii. Values 5793 accepts organization
 $5793 = 5800 - 7$
Number value 58 accepts organization
 $29 + 29$
- viii. TCv (कृष्णद्वैपायन) = $58 = 29 + 29$

- ix. TCV (व्यास) = 29 = TCV (ब्रह्मा) = 29
- x. Value 29 accepts organization
29 = 16 + 13, parallel with 16 Sutras and 13 Upsutras
- xi. Values range 1 to 16 is of 29 factors.
- xii. Values range 1 to 29 is of 28 gaps.
- xiii. Value 29 = TCV (ब्रह्मा) and Value 28 = TCV (ब्रह्म)
- xiv. TCV (मध्य / middle) = 19
- xv. (एकोनविंशति) : TCV (एकोनविंशति) = 50
- xvi. TCV of Ganita Sutra 2 text = 29 + 50 + 28 = 107
- xvii. TCV (वामन) = 28.
- xviii. TCV (पुराण) = 21.
- xix. Shalokas 21 and 28 of Geeta Chapter 1 is the only pair of shalokas of Geeta which split into pairs of half shalokas.
- xx. $28 + 21 = 49 = 7^2$
- xxi. The origin of 6-space is 7-space. it splits 6-space domain into pair of 6-space domain of half unit. There is 7 streams flow of transcendental (5-space) content in both hemispheres of Sun.

Dr. S. K. Kapoor

November 15, 2024