Phase 11

Vedic Ganita Sutras

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11.3
Earth Placement in Space and its Uniform circular translation around Sun

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Abstruct

1. **Placement of (पृथिवि / Prithavi / Earth)**
2. **Devnagri alphabet letters TCV values**
3. **Chaperwise shalokas gaps bridging of Srimad Bhagwad Geeta**
4. **Srimad Bhagwad Geeta first chapter first shaloka**
5. **Placement of Earth midsth of Space**
6. **Integrated format of Ganita Sutras and Upsutras**
7. **Cyclic phases of Surya Formulation**

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Abstruct

Ganita Sutras and Upsutras mathematics is the basis base of Vedic knowledge systems chase of manifestation of the existence phenomenon and in particular the placement of Earth in space and its translation in uniform cyclic way around the Sun. And the connected phenomenon. Here in this paper the initial chase steps have been reached at. However, for complete details, as the sequential integrated format from first step to the last 29th step will come into play, the chase of the same will be attempted in continuity in documents 11.4 onwards.

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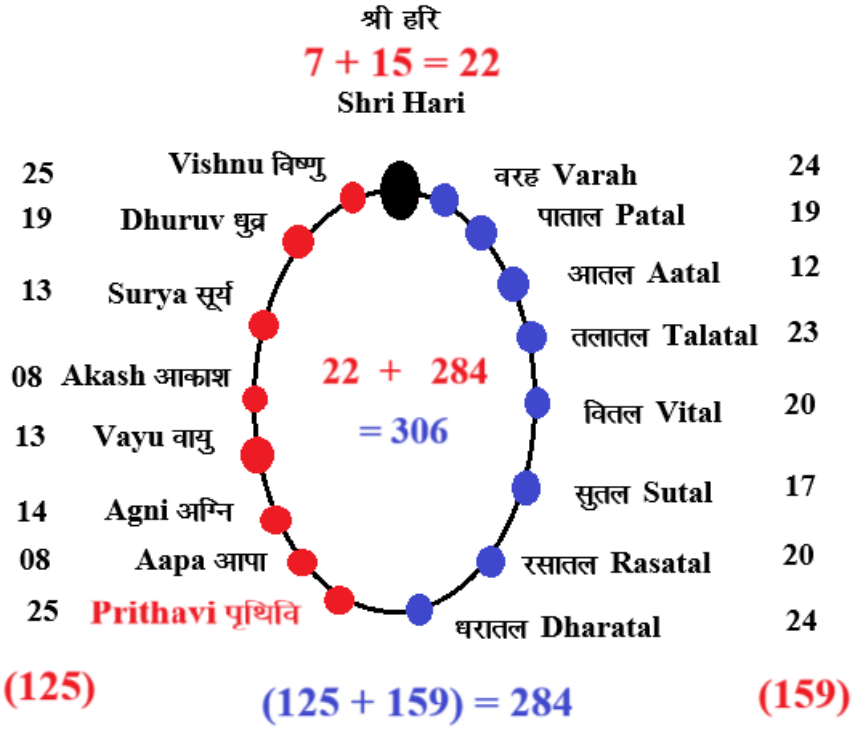
1

Placement of (पृथिवि / Prithavi / Earth)



2

Devnagri alphabet letters TCV values

Devnagri Varanmala
देवनागरीं वर्णमाला

Nine vowels with TCV values	total value
अ इ उ ऋ ऌ ए ओ ऐ औ	45
1 2 3 4 5 6 7 8 9	

5 x 5 Varga consonants with TCV values	total value
क ख ग ध ङ 1 2 3 4 5	125
च छ ज झ 2 3 4 5 6	
ट ठ ड ढ़ ण 3 4 5 6 7	
त थ द ध न 4 5 6 7 8	
प फ ब भ म 5 6 7 8 9	

Anthstha letters: with TCV values	total value
य र ल व 1 3 5 7	16

Ushmana letters: with TCV values	total value
श स ष ह 2 3 6 9	20

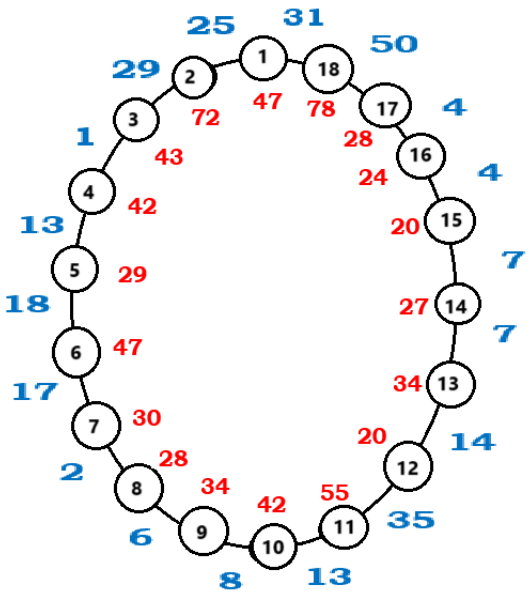
Yama letters with TCV values	total value
	100
9 10 11 12 13 14 15 16	

Grand total value
45 + 125 + 16 + 20 + 100 = 306

3

Chapterwise shalokas Gaps Bridging of Srimad Bhagwad Geeta

Shalokas
47
72
43
42
29
47
30
28
34
42
55
20
34
27
20
24
28
78
Total 700



Gaps values	
31	31
25	56
29	85
1	86
13	99
18	117
17	134
2	136
6	142
8	150
13	163
35	198
14	212
7	219
7	226
4	230
4	234
50	284
Total 284	

(283 + 1 = 284)

Linear range along circular set up joint adds one value to the linear range

4

Srimad Bhagwad Geeta first chapter first shaloka

श्रीमद्भगवदगीता प्रथम अध्याय प्रथम श्लोक

धृतराष्ट्र उवाच

धर्मक्षेत्रे कुरूक्षेत्रे समवेता युयुत्सवः।

मामकाः पाण्डवायश्चैव किमकुर्वत सञ्जय ।। १ ।।

TCV (धर्मक्षेत्रे) = 8 + 12 + 13 + 11 = 44

TCV (**कुरूक्षेत्रे**) = 4 + 9 + 13 + 11 = 37

TCV (**समवेता**) = 4 + 10 + 13 + 6 = 33

TCV (**युयुत्सवः**) = 4 + 4 + 8 + 21 = 37

TCV (**मामकाः**) = 11 + 10 + 16 = 37

TCV (**पाण्डवायश्चैव**) = 7 + 13 + 9 + 12 + 8 = 49

TCV (**किमकुर्वत**) = 3 + 10 + 4 + 10 + 5 = 32

TCV (**सञ्जय**) =4 + 6 + 5 + 2 = 17

Grand total of TCV values
44 + 37 + 33 + 37 + 37 + 49 + 32 + 17 = 286

Soapkram **सोपक्रम**

(n, n + 3) / (dimension - origin)

(283 + 3 = 286) Total letters of Ganita Sutras (283)

n = 283, n + 3 = 286

286 as domain fold is of 284 as dimension fold

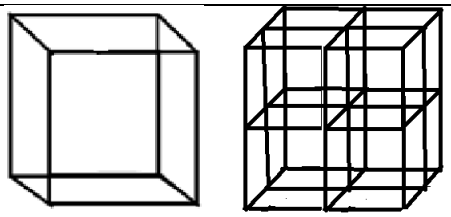
5
Placement of Earth midsth of Space

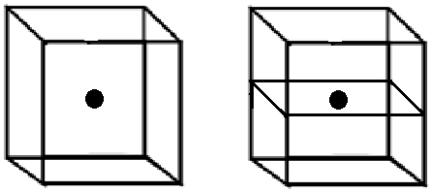
पृथिवि की आकाश के मध्य स्थापना

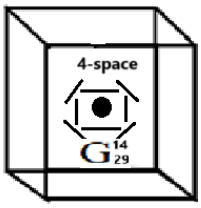
1. TCV (आकाश / Akash / Space) = 8 = 2^3, linear to spatial split of Space
2. 8 = 4 + 4; spatial formulation for value 4 is चार (Chaar).
3. Formulation (चार Chaar) is च TCV (2), आ TCV (2); र TCV (3) and अ TCV (1); 4, 2, 3, 1; summation value 4 + 2 + 3 + 1 = 9. Quadruple values (1, 2, 3, 4) is parallel with four folds of Hyper cube 3.
4. The transition from linear order to spatial order amounts to split of cube into 8 sub cubes, as a pair of halves of 4 sub cubes each

   5 cube with center (middle point) is a set up of 28 structural components.

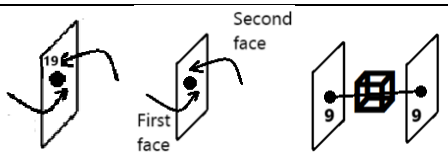
   8 corner points, 12 edges, 6 surfaces, 1 volumme and 1 center
5. The center of the cube is origin of 3-space / origin fold of hyper cube 3 and as such because of spatial structure, a pair of middle points placement is there at middle. Thereby the structural components become 29.

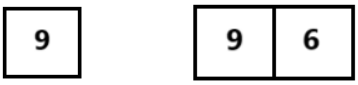


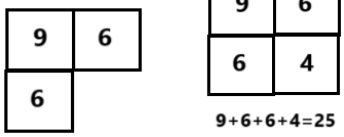




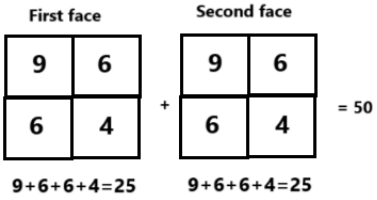
6. The upper part and lower part of the cube stands segregated in terms of the middle separation plate of a pair of faces.
7. The upper face of segregating plate, is a synthetic set up lower surfaces of sub cubes of upper half of cube.
8. Likewise lower face of segregating plate, is a synthetic set up of upper surfaces of 4 sub cubes of lower half of cube.
9. The upper face of segregating plate as a synthetic set up of quadruple squares is a structural set up of 9 + 6 + 6 + 4 = 25 structural components
10. Likewise the lower face of segregating plate is a synthetic set up of quadruple squares as of strucutral components 9 + 6 + 6 + 4 = 25.
11. The upper face and lower face of segregating plate, together emerge as a set up of 25 + 25 = 50 structural components
12. TCV (मध्य / Madhya / Middle) = 19, formulation एकोविंशति Eknovinshayati. TCV (एकनोविंशति / Eknovinshayati / 19) = 50.
13. These features of organization emerge as of value 29, 50 and 28

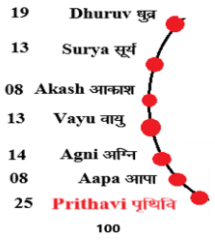
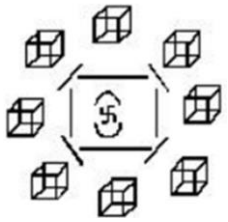






TCV (पृथिवि / Prithavi / Earth) = 25, earth placement in the set up at middle.



together of sum up value 107 parallel with the TCV value of Ganita Sutra 2 (निखिलं नवतश्चरमं दशतः) 14. Sequentially the reach uptill Ganita Sutra 8 (पूरणापूरणाभ्याम्) of TCV (पूरणापूरणाभ्याम्) = 68 = TCV (पंचमहाभूतः) =TCV(पृथिवि,आप,अग्नि,वायु, आकाश)	  $A^4 : 8\ B^3 = 4 \times 8 = 32$ 68 + 32 = 100

6

Integrated format of Ganita Sutras and Upsutras

C0 = serial number, C1 = Sutra / Upsutra placement,
C2 = Text C3 = TCV of the text

C0	C1	C2	
1	Ganita Sutra 1	एकाधिकेन पूर्वेण।	68 / 75
2	Ganita Upsutra 1	आनुरूप्येण।	42
3	Ganita Sutra 2	निखिलं नवतश्चरमं दशतः	107
4	Ganita Upsutra 2	शिष्यते शेषसंज्ञः।	74
5	Ganita Sutra 3	ऊर्ध्वतिर्यग्भ्याम्	58
6	Ganita Upsutra 3	आद्यमाद्येनान्त्यमन्त्येन	96
7	Ganita Sutra 4	परावर्त्य योजयेत्।	52
8	Ganita Upsutra 4	केवलैः सप्तकं गुण्यात्।	92
9	Ganita Sutra 5	शून्यं साम्यसमुच्चये	71
10	Ganita Upsutra 5	वेष्टनम्।	41
11	Ganita Sutra 6	(आनुरूप्ये) शून्यमन्यत्।	76
12	Ganita Upsutra 6	यावदूनं तावदूनम्।	85
13	Ganita Sutra 7	संकलनव्यवकलनाभ्याम्।	91
14	Ganita Upsutra 7	यावदूनं तावदूनीकृत्य वर्गं च योजयेत्।	144
15	Ganita Sutra 8	पूरणापूरणाभ्याम्।	68
16	Ganita Sutra 9	चलनकलनाभ्याम्।	56 / 59
17	Ganita Upsutra 8	अन्त्ययोर्दशकेऽपि।	53 (54)
18	Ganita Sutra 10	यावदूनम्।	41
19	Ganita Upsutra 9	अन्त्ययोरेव।	40
20	Ganita Sutra 11	व्यष्टिसमष्टिः।	58
21	Ganita Upsutra 10	समुच्चयगुणितः।	56
22	Ganita Sutra 12	शेषाण्यङ्केन चरमेण।	79
23	Ganita Upsutra 11	लोपनस्थपनाभ्याम्।	73
24	Ganita Sutra 13	सोपान्त्यद्वयमन्त्यम् ।	80
25	Ganita Upsutra 12	विलोकनम्।	44
26	Ganita Sutra 14	एकन्यूनेन पूर्वेण।	84
27	Ganita Upsutra 13	गुणितसमुच्चयः समुच्चयगुणितः।	112
28	Ganita Sutra 15	गुणितसमुच्चयः	56

29	**Ganita Sutra 16**	गुणकसमुच्चयः।	55
	Om Tat Sat Iti Nirdesha ॐ तत् सत् इति निर्देशाः		

7
Cyclic phases of Surya Formulation

15. Sutra 9 is at 16th placement in integrated format. Its TCV value is 56. Parallel with D16 spectra. 16 is D6 spectra. '6' / 6-space is of 13 geometries. सूर्य Surya / Sun is of value TCV 13. Simple rendering of Sutra 9 is Chalan / translation, Kalan / uniform, a uniform translation about Sun.
16. Translation and reach is of two hemispheres – white and black (northern hemisphere and southern hemisphere.
17. To appreciate, Ganita Sutras and Upsutras, being basis base mathematics of existence phenomenon, within frames and without frames, in solar universe, let us first see that TCV (चक्र chakra / cycle) = 6 of 6-space format of manifestation of Sun as 13th geometry being zero signature geometry of middle placement of 13th geometry of signatures range.

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

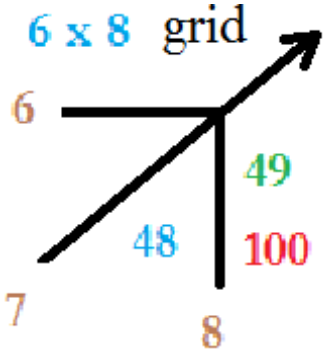
And formulation (सूर्य / Surya / Sun) is of following cyclic phases of transcendental content flow from 7-space origin of Sun and its manifestation within 8 directional frame.

Formulation (सूर्य) is composition of 'स ू र य अ' of TCV values range 3, 6, 2, 1, 1. This TCV values range is of following cyclic manifestation phases.

SN	Cyclic phase values range						Phase value	Total value
1	3	6	2	1	1		13	13
2	3	4	1	0	2		10	23
3	1	3	1	2	1		8	31
4	2	2	1	1	0		6	37
5	0	1	0	1	2		4	41
6	1	1	1	1	2		6	47

7	**0**	**0**	**0**	**1**	**1**		**2**	**49**
8	0	0	1	0	1		2	2
9	0	1	1	1	1		4	6
10	1	0	0	0	1		2	8
11	1	0	0	1	0		2	10
12	1	0	1	1	1		4	14
13	1	1	0	0	0		2	16
14	0	1	0	0	1		2	18
15	1	1	0	1	1		4	22
16	0	1	1	0	0		2	24
17	1	0	1	0	0		2	26
18	1	1	1	0	1		4	30
19	0	0	1	1	0		2	32
20	0	1	0	1	0		2	34
21	1	1	1	1	0		4	38
22	**0**	**0**	**0**	**1**	**1**		**2**	**40**

18. The first seven phases are of feature of total value 49 = 7^2



19. Pole star (7-space) translates along Paridhi (परिधि) of its domain and moves Sun and all other planets.

20. Phases 8 to 22 (15 phases) cyclic. The total value of these 15 phases is ‘40’.
21. Value 15 is parallel with 15 geometries of 7-space. The value 40 is parallel with TCV of text of Ganita Upsutra 9 (अन्त्ययोरेव) = 40.

To be continued the translation phenomenon of Earth around the Sun

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