Sri – Om
VEDIC MATHEMATICS AWARENESS YEAR

'Credit goes to Swami Bharti Krshna Tirtha Ji Maharaj to focus the attention of present generation about the values of Ganita Sutras (mental Mathematics Sutras)'

All are invited to join Awareness program

All are warmly invited to join the awareness program of Vedic Mathematics. All teachers, parents and students are invited to Learn and Teach Vedic Mathematics for proper intelligence growth at School.

Dr. S. K. Kapoor
Sh. Rakesh Bhatia
Sh. Bhim Sein Khanna
Sh. Deepak Girdhar
- Organizers

ISSUE NO 58

Vedic Systems Chase
'Words' formulation

1. Vedic Systems compose and chase in terms of 'words formulations' availing 'settled' alphabet.
2. Let me illustrate it with concrete illustration of the sequence of eighteen word formulations as under:-

Sn.	Puran	TCV value
1	ब्रह्म् *(Brahma)*	28
2	पदम् *(Padama)*	22
3	विष्णु *(Vishnu)*	25
4	शिव *(Shiva)*	12
5	भागवत *(Bhagavata)*	27
6	भविष्य *(Bhavishya)*	26
7	नारद *(Narada)*	21
8	मारकेण्डय *(Markandeya)*	30
9	अग्नि *(Agni)*	14
10	वेवरत ब्रह्म् *(Vaivarta Brahma)*	59
11	लिगं *(Linga)*	16
12	वराह *(Varāha)*	24
13	स्कन्द *(Skanda)*	20
14	वामन *(Vāmana)*	28
15	कूर्म *(Kūrma)*	19
16	मतस्य *(Matsya)*	19
17	गरूण *(Garuda)*	19
18	ब्रह्माण् *(Brahmāṇḍa)*	42

3. These 18 Devnagri formulations have their internal organization values as per the sequence of the letters availed by each of these 18 formulations and also these have external organization as per the sequence of their placement in the range of these 18 formulations.

4. The internal organization of word formulations sequentially coordinate the formats, features, virtues and order of the individual letters and as summation thereof accept synthesized format, features, values, virtues and order for the formulation itself.

5. Illustratively the formatting 'ब्रह्म्' is availing six letters in the sequence as is tabulated hereunder

ब्	्र	अ	ह्	म्	अ
1	2	3	4	5	6

6. This set up of six letters, as per their individual transcendental (5-space) code values of Devnagri alphabet shall be leading us to the transcendental (5-space) code value for the formulation 'ब्रह्म्' being 28.

Sn.	1	2	3	4	5	6
Letter	ब्	्र	अ	ह्	म्	अ
TCV	7	1	1	9	9	1
Total 7+1+1+9+9+1=28						

7. The table of transcendental (5-space) code values accepted by individual Devnagri alphabet letter is as under:-

Letter	अ	इ	उ	ऋ	लृ	ए	ओ	ऐ	औ
TCV	1	2	3	4	5	6	7	8	9

Letter	क	ख	ग	ध	ड
TCV	1	2	3	4	5

Letter	च	छ	ज	झ	ञ
TCV	2	3	4	5	6

Letter	ट	ठ	ड	ढ़	ण
TCV	3	4	5	6	7

Letter	त	थ	द	ध	न
TCV	4	5	6	7	8

Letter	प	फ	ब	भ	म
TCV	5	6	7	8	9

Letter	य	व	र	ल
TCV	1	3	5	7

Letter	श	ष	स	ह
TCV	2	3	6	9

Letter	•	Ꙩ	ꙩ	ꙫ	:	ꙭ	ꙮ	꙯
TCV	9	10	11	12	13	14	15	16

Letter	˘	ˊ
TCV	1	2

8. It would be a blissful exercise to reach at the sequential organization for each of the above 18 formulations and also to reach at the transcendental (5-space) code values for these 18 formulations.

9. The range of 18 transcendental (5-space) code values of above 18 formulations comes to be:
   TCV (ब्रह्म्) =**28**, TCV (पदम्) =**22**, TCV (विष्णु) =**25**, TCV (शिव) =**12**, TCV (भागवत) = **27**, TCV (भविष्य) =**26**, TCV (नारद) =**21**, TCV (मारकेण्डय) =**30** TCV (अग्नि) =**14** TCV (वेवरत ब्रह्म्) =**59** TCV (लिगं) =**16**, TCV (वराह) =**24**, TCV (स्कन्द) =**20**, TCV (वामन) =**28**, TCV (कूर्म) =**19**, TCV (मतस्य) =**19**, TCV (गरूण) =**19**, TCV (ब्रह्म्ाण्) =**42**

10. The emerging range **(28, 22, 25, 12, 27, 26, 21, 30, 14, 59, 16, 24, 20, 28, 19, 19, 19, 42)** leads to parallel geometric formats.

11. The artifices values and parallel geometric formats settle the formats, features, values, virtues and orders of these formulations.

12. This chain of formats constitutes organization format of 18 purans.

   i. Brahma Puran ब्रह्म् पुराण,   **ii.** Padama Puran पदम् पुराण,

   iii. Vishnu Puran विष्णु पुराण, **iv.** Shiva Puran शिव पुराण

   v. Bhagavata Puran भागवत पुराण, **vi.** Bhavishya Puran भविष्य पुराण,

   vii. Narada Puran नारद पुराण, **viii**. Markandeya Puran मारकेण्डय पुराण,

   ix. Agni Puran अग्नि पुराण, **x.** Vaivarta Brahma Purāṇam वेवरत ब्रह्म् पुराण,

   xi Linga Puran लिगं पुराण,   **xii** Varāha Purāṇam वराह पुराण,

xiii Skanda Purāṇam स्कन्द पुराण, **xiv** Vāmana Purāṇam वामन पुराण,

xv Kūrma Purāṇam कूर्म पुराण,   **xvi** Matsya Purāṇam मतस्य पुराण,

xvii. Garuda Purāṇam गरूण पुराण, **xviii.** Brahmāṇḍa Purāṇam ब्रह्म्ाण पुराण

13. **TCV (पुराण) = 21** shall be leading to the transition and transformation for the above range of values **(28, 22, 25, 12, 27, 26, 21, 30, 14, 59, 16, 24, 20, 28, 19, 19, 19, 42)** into the range 28+21=**49**, 22+21=**43**, 25+21=**46**, 21+12=**33**, 27+21=**48**, 26+21=**47**, 21+21=**42**, 30+21=**51**, 14+21=**35**, 59+21=**80**, 16+21=**37**, 24+21=**45**, 20+21=**41**, 28+21=**49**, 19+21=**40**, 19+21=**40**, 19+21=**40**, 42+21=**63**

14. This emerging range **(49, 43, 46, 33, 48, 47, 42, 51, 35, 80, 37, 45, 41, 49, 40, 40, 40, 63)** and parallel geometric formats shall be further adding to our insight about the organization format of 18 purans.

15. Here it would be relevant to note that 21 = 1+2+3+4 +5 + 6, which is parallel to the organization format of Sathapatya measuring rod being the set up of hyper cubes 1 to 6.

16. It also would be relevant to note that this is also parallel to the geometric formats of Shad Chakras format of human frame which accept external characteristics range as (2, 4, 6, 8, 10, 12) which is parallel to the boundary components of hyper cubes 1 to 6.

17. Still further it also would be relevant to note that 21 =1 x 3 x 7 is parallel to the Divya Ganga Flow of seven streams flow from Brahman source reservoir and the same sequentially transit and transform into three stream and one stream flow respectively.

To be continued….

17-12-2014   Dr. S. K. Kapoor, *(Ved Ratan)*

VMS & T Project

School Text Books

(Class IX, X, XI & XII)

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VMS & T Text Book Class XI

(5-space)

Part – 2   **Ganita Sutras and Transcendental (5-space) domain**

Chapter-09   Along the format of Ganita Sutra 3

I.   **TEXT**

Sanskrit   ऊर्ध्वतिर्यग्भ्याम् ।

Roman script   *Urdhva tiryagbhya*

Simple English rendering *Vertically and crosswise*

II.   **TECHNICAL FORMULATIONS**

(1) ऊर्ध्व Urdhava (vertical) and

(2) तिर्यग Tiryag (crosswise)

III.   **Text letters sequence**

1	2	3	4	5	6	7	8	9	10
ऊ	घ्	र्	व्	अ	त्	इ	र्	य्	अ
11	12	13	14	15					
ग्	भ्	य्	आ	म्					

IV.   Transcendental code values

SN.	1	2	3	4	5	6	7	8	9	10
Letter	ऊ	घ्	र्	व्	अ	त्	इ	र्	य्	अ
TCV	6	7	2	7	1	4	2	2	1	1
SN.	11	12	13	14	15					
Letter	ग्	भ्	य्	आ	म्					
TCV	3	8	1	2	9					

V.   First Formulation ऊर्ध्व Urdhava

SN.	1	2	3	4	5
Letter	ऊ	घ्	र्	व्	अ
TCV	6	7	2	7	1

TCV (ऊर्ध्व)= 6+7+2+7+1=23

VI.   Second Formulation तिर्यग् Tiryag

The formulation 'तिर्यक् Tiryak' in the formulation accepts form 'तिर्यग् Tiryag'

SN.	1	2	3	4	5	6
Letter	त्	इ	र्	य्	अ	ग्
TCV	4	2	2	1	1	3
Total TCV (तिर्यग) = 4+2+2+1+1+3=11 and TCV (तिर्यक)=13						

VII.   Syllables organization of first formulation 'ऊर्ध्व'

First syllable (ऊ) TCV (ऊ)=6,

Second Syllbale TCV (र्ध्व)=17

The composition 'ऊर्ध्व', in its letter wise sequence leads to

First syllable format value (ऊं)=8.

Second syllable format value (ध्व)=15

VIII.   Syllables organization of second formulation 'तिर्यग्'

First syllable (ति) / TCV (ति)=6

First syllable (र्ति) / TCV (र्ति)= 8
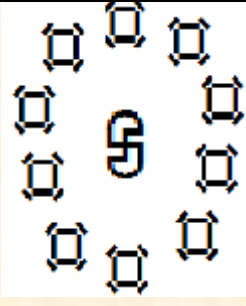
Second syllable (यग्)/ TCV (यग्)= 13, and

Second syllable (यक्)/ TCV (यक्)= 11, and

IX.   Parallel geometric format for first formulation (ऊर्ध्व)

(i)   TCV (ऊर्ध्व) = 23 leads to organization $23 = (3+5) + (3 \times 5)$.

(ii)   TCV (ऊर्ध्व)= TCV (ऊ) + TCV (र्ध्व)= 6 + 17

(iii)   TCV (ऊर्ध्व)= TCV (ऊं)+ TCV (ध्व)=8 + 15

(iv)   Artifice 6 as a parallel format of 6-space / hyper cube 6 / 6-space domain.

(v)   Artifice 17 has parallel geometric format of 17 sama/ placement value of northern hemisphere.

(vi)   This shall be leading us to the geometric format of Sun domain / 6-space domain at center / origin of northern hemisphere and southern hemisphere, and the same shall be permitting symbolic expression as under :-

(vii)   The organization format chase of formulation 'ऊर्ध्व' shall be leading us to the following symbolic representation.
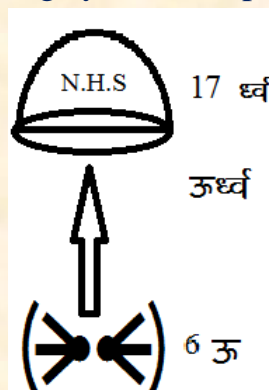
(viii) The second split of the formulation (ऊर्ध्व)= TCV (ऊर्)+ TCV (ध्व)=8 + 15 shall be leading us to the set up of the format of hyper cube 4 as domain enveloped within solid boundary of 8 components and of transcendental (5-space) origin of solid dimensional order leading to linear equivalence 1 x 3 x 5 = 15. It would permit symbolic representation as under
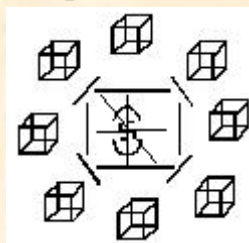
(ix)   Here it would be relevant to note that 4-space plays the role of dimension of 6-space. Further it also would be relevant to note that 3-space and three dimensional frame permits its split as a pair of three dimensional frames of half dimensions. And with it the above organization shall be leading us to the split for transcendental (5-space) domain into a pair of domains, each being of a solid dimensional order but in terms of three dimensional frames of half dimensions.

(x)   With it, it would be a blissful exercise for the transcending mind to be face to face with the transcendental (5-space) cyclic format.

Parallel geometric format for second formulation (तिर्यग्)

First syllable (ति) / TCV (ति)=6
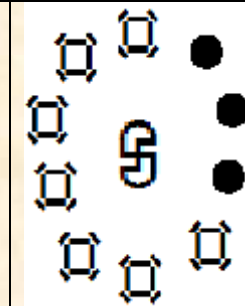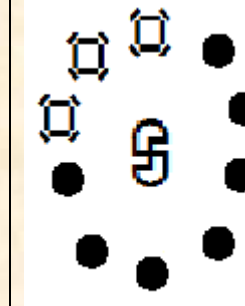First syllable (तिं) / TCV (तिं)= 8
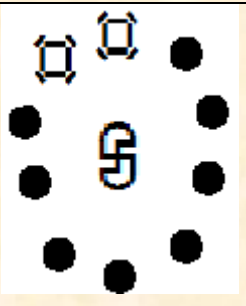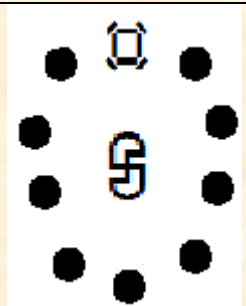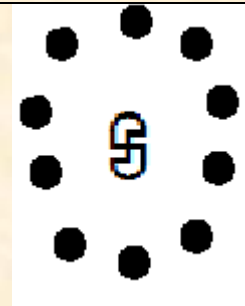Second syllable (र्यग्)/ TCV (र्यग्)= 13, and
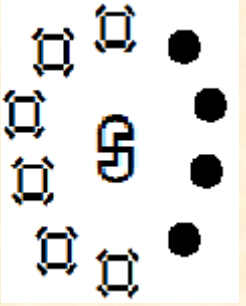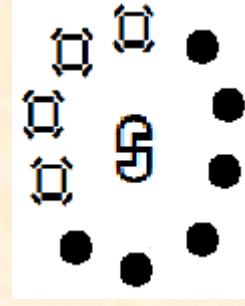
Second syllable (यक्)/ TCV (यक्)= 11, and

i.   The organization format TCV (तिर्यग्) = TCV (ति)+ TCV (र्यग्), i.e. 13 = 6 + 7, which split is parallel to the split of 13 geometries range of 6-space / 13 versions of hyper cube 6 as 6 geometries of negative signatures and 7 geometries of non negative signatures. Simultaneously, it also would be relevant to note that it shall be parallel to six positive geometries and seven non negative geometries / versions of hyper cube 6.

ii.   The 13 versions of hyper cube 6 as bodies of 13 geometries of 6-space may be symbolically expressed as under

|			
12 Signature geometry	11 Signature geometry	10 Signature geometry	9 Signature geometry
8 Signature geometry	7 Signature geometry	6 Signature geometry	5 Signature geometry
4 Signature geometry	3 Signature geometry	2 Signature geometry	1 Signature geometry

iii.   One may have a pause here and take note that hyper cube 6 accepts 5-space as its boundary fold and further as that 5-space accepts 11

geometries range and parallel to it there are 11 versions of hyper cube 5. Still further it also would be relevant to note that 11 geometries range of 5-space permits split firstly as six non positive geometries and five positive geometries. Simultaneously there can be a split of 11 geometries range being of six non negative geometries and 5 negative geometries. The symbolic expression for 11 versions of hyper cube 5 may be as under:-

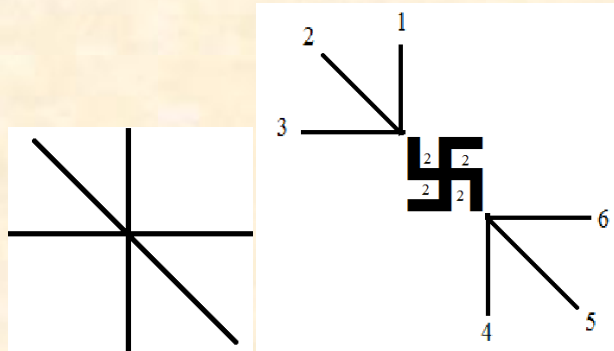|	Symbolic expression		
5	6	7	8
9	10	11	

(xi)   One may have a pause here and take note that the set up of 6-space enveloped with 5-space shall be making a reach from 6-space domain to 5-space domain from 13 units range to 11 units range and as such the coordination thereof is to be crosswise (तिर्यग्/ तिर्यक्).

(xii)   As such the combined features of both formulations (ऊर्ध्व)and
        (तिर्यग्) shall be permitting symbolic express as under
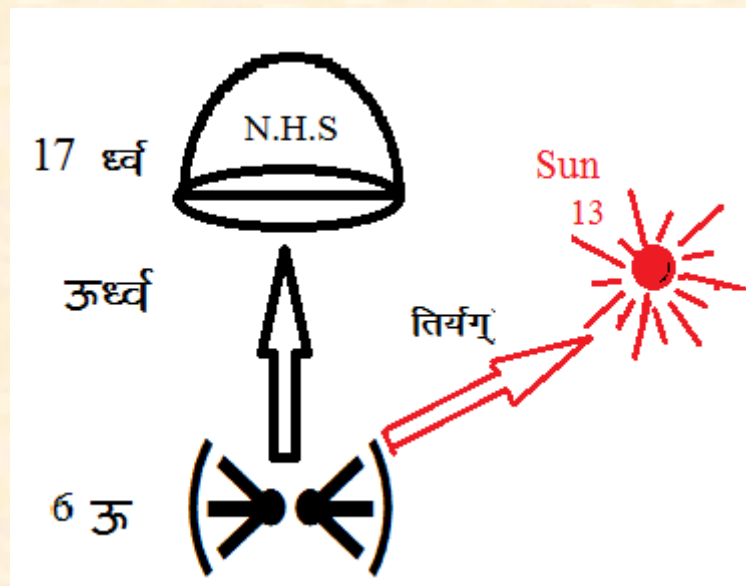
(xiii) One may have a pause here and take note that artifices pair (11,
        13) is parallel to pair of space folds (dimension fold, domain
        fold).

(xiv)   Still further it also would be relevant to note that the artifice 31
        is parallel to the features of organization of linear order (1-
        space) structuring solid domain (3-space). A step ahead artifice
        31 + 11+ 42 is parallel to the features of organization of spatial
        order (2-space) structuring hyper (4-space).

(xv)   Still further artifice 53 = 42 + 11 is parallel to the features of
        solid order 3-space as dimension structuring transcendental (5-
        space) domain.

(xvi)   Still further it also would be relevant to note that 11 x 11 = 121
        is laying the format for multiplication in terms of vertical and
        crosswise steps.

(xvii) The parallel format of artifice 121 is of approach to middle from
        both ends and because of it its split as 12 and 21 formats shall
        be brining to focus the approach for the whole in terms of its
        parts.

(xviii) The feature 1, 1 + 1, 1 will lead to the feature 2, 2 + 1, 2 and so
        on (n, n + 1, n).

(xix)   Further it would lead to the format (n, n + 2, n) and so on (n, n +
        3, n) for the coverage of four fold manifestation layers (n, n + 1,
        n + 2, n + 3).

(xx)   Still further it also would be relevant to note that TCV (ऊर्ध्व) + TCV (तिर्यग) = 23 + 13 = 36 = 17 + 19.

(xxi)   The artifice 36 in Devnagri script 'ɜ६' is of reflection pair script formats (iii, vi),

(xxii) Still further it would be relevant to note that the three dimensional frame permits a split into three dimensional frame of half dimension with opposite orientation and this split shall be releasing 4-space at the origin (being of spatial order).

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