

ORGANIZATION FORMAT OF GANITA SUTRAS

Step – 01 Artifices Pair (16, 13)

1. To reach at the organization format of Ganita Sutras and Upsutras, the first step may be to chase features of artifices pair (16, 13) as there are 16 Sutras and 13 Upsutras.
2. Factors* of numbers range '1 to 16' is '29' which is the summation value of the artifices pair (16, 13), as much as that $29 = 16 + 13$.

| Sr. | Number | Factors | Number of factors | Grand total of factors |
|------|--------|---------------|-------------------|------------------------|
| I | 1 | 1 | 1 | 1 |
| Ii | 2 | 2 | 1 | 2 |
| Iii | 3 | 3 | 1 | 3 |
| Iv | 4 | 2 x 2 | 2 | 5 |
| V | 5 | 5 | 1 | 6 |
| Vi | 6 | 2 x 3 | 2 | 8 |
| Vii | 7 | 7 | 1 | 9 |
| Viii | 8 | 2 x 2 x 2 | 3 | 12 |
| Ix | 9 | 3 x 3 | 2 | 14 |
| X | 10 | 2 x 5 | 2 | 16 |
| Xi | 11 | 11 | 1 | 17 |
| Xii | 12 | 2 x 2 x 3 | 3 | 20 |
| Xiii | 13 | 13 | 1 | 21 |
| Xiv | 14 | 2 x 7 | 2 | 23 |
| Xv | 15 | 3 x 5 | 2 | 25 |
| Xvi | 16 | 2 x 2 x 2 x 2 | 4 | 29 |

3. As numbers range 1 to 16 leads to 29 factors, this as such brings to focus a specific features as to interlinking of artifices pair (16, 13).
4. Here it also would be relevant to note that 13 is the biggest prime uptill 16.

5. Further it also would be relevant to note that the factors contribution of numbers range 1 to 16 is '29' and factors contribution of numbers range 1 to 13 is 21 and there combined summation value is $29 + 21 = 50$ which is equal to the factors contribution of numbers range 1 to 26.
6. Here it would be also relevant to note that the letters range of Devnagri alphabet is of 9 vowels, 33 consonants and 8 yama letters making the alphabet as to be of 50 letters range.
7. Further it also would be also relevant to note that the artifices pair (16, 13) admits re-organization as (5+6+5), (4+5+4) parallel to the set up of hyper cube 5 accepting 6-space as origin fold and its boundary hyper cube 4 accepting 5-space as origin fold thereof.
8. Artifices 29 is of very wide potentialities availed by different Vedic scriptures. Chapter – 5 of Shrimad Bhagwad Geeta is of 29 versus range likewise chapter – 13 of Shrimad Durga Saptasati as well is of 29 versus range including of uvachas of the chapter. Both Shrimad Bhagwad Geeta and Shrimad Durga Saptasati are scriptures of 700 versus each.
9. Samved Samhita is a scripture of 29 Archiks. Lord Krishana, the incarnation of Lord Vishnu, in his His Divine song 'Shrimad Bhagwad Geeta' enlightens that amongst Vedas, He 'Lord Krishna' is Samaveda.
10. The first letter of the text of Ganita Sutras is the sixth vowel parallel to which is the format and features of 6-space / hyper cube 6 / artifice 6 / Sun / Pursha / Lord Vishnu.
11. Let us organize numbers 01 to 99 along the 9 x 9 matrix format as under

9 x 11 matrix format

| | | | | | | | | |
|----|----|----|----|----|----|----|----|----|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 |
| 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 |
| 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |

12. This 9 x 11 format shall be splitting into upper part and lower part set up as under:

Upper part of 9 x 11 matrix format

| | | | | | | | | |
|----|----|----|----|----|----|----|----|----|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| | | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| | | | 40 | 41 | 42 | 43 | 44 | 45 |
| | | | | 50 | 51 | 52 | 53 | 54 |
| | | | | | 60 | 61 | 62 | 63 |
| | | | | | | 70 | 71 | 72 |
| | | | | | | | 80 | 81 |
| | | | | | | | | 90 |
| | | | | | | | | |

Lower part of 9 x 11 matrix format

| | | | | | | | | |
|----|----|----|----|----|----|----|----|----|
| 19 | | | | | | | | |
| 28 | 29 | | | | | | | |
| 37 | 38 | 39 | | | | | | |
| 46 | 47 | 48 | 49 | | | | | |
| 55 | 56 | 57 | 58 | 59 | | | | |
| 64 | 65 | 66 | 67 | 68 | 69 | | | |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | | |
| 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |

13. The above upper part of 9 x 11 matrix is the set up of 29 reflection pairs of numbers as follows

Column number 1

i. (01, 10)

Column number 2

ii. (02, 20), iii. (11, 11),

Column number 3

iv. (03, 30), v. (12, 21),

| | | | |
|--------|-----------------|----------------|----------------|
| | Column number 4 | | |
| vi. | (04, 40, | vii. 13, 31, | viii. 22, 22), |
| | Column number 5 | | |
| ix. | (05, 50), | x. 14, 41, | xi. 23, 32), |
| | Column number 6 | | |
| xii. | (06, 60) | xiii. 15, 51), | xiv 24, 42 |
| | | | xv. (33, 33) |
| | Column number 7 | | |
| xvi. | (07, 70, | xvii 16, 61 | xviii. 25, 52 |
| | | | xix 34, 43, |
| | Column number 8 | | |
| xx | (08, 80 | xxi. 17, 71 | xxii. 26, 62 |
| xxiv. | 44, 44 | | xxiii. 35, 53, |
| | Column number 9 | | |
| xxv. | (09, 90, | xxvi. 18, 81 | xxvii. 27, 72 |
| xxviii | 36, 63 | xxix 45, 54, | |

14.The column wise appearance of above 29 reflection pairs comes to be as
1, 2, 2, 3, 3, 4, 4, 5, 5.

15.The reflection pair of column no. 1, being the single pair as such it may be expressed as 2^0 .

16.As such the arrangement for the reflection pairs of above 9 columns may be accepted as of two parts, first being 2^0 , 2, 2, 4, 4 and the second part being 3, 3, 5, 5.

17.It would be blissful to note that this split is of summation values
 $1+2+2+4+4=13$ and $3+3+5+5=16$.

18.One shall sit comfortably and permit the transcending mind to think, meditate, transcend, glimpse and be blissfully face to face with above emerging with the virtues, values and features of artifices pair (16, 13) and in terms thereof to comprehend and to imbibe the virtues, values and features of the organization format of Ganita Sutras and Ganita Upsutras.

Note : - Course Step 2 is scheduled for 17-7-2013.

Dr. S.K. Kapoor
