**ORGANIZATION FORMAT OF GANITA SUTRAS**

## Step – 72 : Ganita upsutra-3

## Text

# आघमाघेनान्त्यमन्त्येन ।

# *(Adyamadyenantyamantyen)*

**UPSUTRA - III**

आधमाधेनान्त्यमन्त्येन

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|----|----|----|----|----|----|----|----|----|----|
| आ | द् | य् | अ | म् | आ | द् | य् | ए | न् |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| आ | न् | त् | य् | अ | म् | अ | न् | त् | य् |
| 21 | 22 | 23 | | | | | | | |
| ए | न् | अ | | | | | | | |

| Total Letters | Vowels | Nasels | Consonents |
|---------------|--------|--------|------------|
| 23 | 9 | - | 14 |

**Arithmetic Working Rule**

**First with first Last with last**

1. This upsutra focuses upon the features of the dimensional domains, particularly of unequal dimensional domains of same dimensional order.

2. Illustratively a pair of lines of unequal length, pair of surfaces of unequal area, pair of bigger and smaller cubes and hyper cubes of same order may be of focused attention of this organizational features of Ganita Upsutra 4.

3. Pair of lines of unequal length, length wise focus upon distinguishing features of linear domains but the structural oneness of dimensional

domain is the basic inherent feature of dimensional domains of same order which deserves to be comprehended and imbibed

4. Towards this, the focus of the working rule of Ganita Sutra 4 is that the dimensional domain for its inherent dimensional oneness with its whole range of dimensional bodies of same order, is upon the set up within the pair of end points of the domain, i.e. with the beginning of the dimensional domains set up and its reach up till the end point of the dimensional domain.

5. The working rule of associating beginning with the beginning and end with the end, as such is to clearly focus upon the set ups in between the beginning and the end.

6. One may have a pause here and take note of the illustrative case of set up of a line being a track of a moving point.

7. This way line / 1-space body stands approached as having been structured by points (0 space body).

8. Here it would be relevant to note that point (0-space body) is devoid of length and as such points are the set ups of zero length.

9. It is this feature of points being of zero length and as such the points despite infinitely number of them shall be having no contribution towards length.

10. This may be viewed as that any length (bigger or smaller) permit split into infinitely many points

11. It is this feature of length, may be bigger or smaller yields infinitely many points and that way does not permit to classify bigger or smaller lines to be different.

12. This as such shall be focusing upon the feature of dimensional 'infinity' and dimensional units to be the dimensional order specifics.

13. One may have a pause here and permit the transcending mind to sequentially revisit Ganita Upsutras 1, 2, 3 and 4 in that sequence and as well as in the reverse order from Ganita Upsutra 4 to Ganita Upsutra 3 to Ganita Upsutra 2 to Ganita Upsutra 1.

Dr. S.K. Kapoor

***