‘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 109

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INITIATION STEP – 5

पुरुष: / Pursha (Human frame)

and

सूर्य: / Surya (Sun)

1. Real initiation would be a step of understanding the relationship of Existence within Human Frame and solar universe.
2. For it, the pair of basic formulations namely (‘पुरुष: / Pursha /’ and सूर्य: / Surya) may be taken as the start with resource reservoir formulations.
3. TCV (पुरुष:) = 24 and TCV (सूर्य:) = 13.
4. TCV (पुरुष:) = 37 and TCV (सूर्य:) = 26.
5. Artifice 24 accept re-organization as 24 = 4 x 6.
6. The parallel 4 x 6 matrix / grid format accommodates all the 24 double digit number of five place value system.
7. With it the organizational inter relationship of artifices triple (4, 5, 6) comes into play.
8. Here It would be relevant to note that 4 x 4 matrix / grid format accommodates the values parallel to four consecutive manifestation layers for their simultaneous expression as four rows and four columns set up as under:

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9. One may further have a pause here and have a revisit to the above set up and it would bring to focused attention that this arrangement is of seven steps long range (1, 2, 3, 4, 5, 6, 7).
10. With it artifice (seven) as well comes in to play its role along with triple artifices (4, 5, 6).
11. One may further have a pause here and take note that seven steps long range values arrangement as (1, 2, 3, 4, 3, 2, 1) leads to summation value (1 + 2 + 3 + 4 + 3 + 2 + 1) = 16 = 4 x 4.
12. Still further it also would be relevant to note that along the 6 x 6 matrix / grid format there would be accommodation of 6 consecutive self referral (6-space) ranges as under:—

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13. It also would be relevant to note that along 4 x 4 matrix / grid format, there would be an accommodation of values as under:

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14. Still further, it also would be relevant to note that TCV (सूर्यः) = 26 is parallel to four fold manifestation layer (5, 6, 7, 8) of hyper cube 7.

15. Still further it also would be relevant to note that TCV (सूर्यः) = 13 is parallel to 13 geometries range of 6-space which further is parallel to 13 versions of hyper cube 6.

16. Still further it also would be relevant to note that within 4-space (hyper cube 4) domain, 12 edged cube as a degree of freedom of motion which manifests as 13 edge of 12 edged cube.

17. One shall sit comfortably and permit the transcending mind to glimpse this set of features and to be face to face with our Existence Phenomenon within Human Frame in our solar universe with pole star (7-space) in the role of origin of solar universe.

18. Our Existence Phenomenon within Human Frame is of consciousness states, 7 in number, which permit organization along 4 x 4 format with first four consciousness states being

(i) जागरूत चेतन अवस्था, Waking state of consciousness
(ii) स्वप्न चेतन अवस्था, sleep state of consciousness
(iii) सुपुष्पि चेतन अवस्था, Deep sleep state of consciousness
(iv) तुर्य चेतन अवस्था) Turia State of consciousness

19. One may have a pause here and reach at TCV values for the quadruple formulations (जागरूत, स्वप्न, सुपुष्पि, तुर्य).

20. TCV (जागरूत) = 16
21. TCV (स्वप्न) = 29
22. TCV (सुपुष्पि) = 25
23. TCV (तुर्य) = 38
24. TCV (सूर्यः) = 32
25. TCV (सूर्यः) = 45
26. TCV (सूर्यः) = 16
27. TCV (सूर्यः) = 29

28. Still further the chase of above quadruple states of consciousness along 4 x 4 format would lead to their formats parallel to four fold manifestation layers format of hyper cubes 3, 4, 5 and 6.

29. One may have a pause here and permit the transcending mind to continuously remain in prolonged sitting of trans and to be face to face
with above organization formats of first four consciousness states and to
glimpse the bliss of our Existence Phenomenon within Human Frame as
to be of the order of the reach along the path of the set up of four folds
parallel to the formats of hyper cube 3, 4, 5 and 6 as of the order of the
reach from surface of Earth to the surface of Sun.

To be continued…

**Basic features of Vedic Mathematical Systems**

**I. एकाग्र Ekagarh (one ahead)**

**II. Bridging of Gaps**

**III. Mathematical entity values of text of Ganita Sutras and Upsutras**

**IV. Conceptual format : Square**

**V. Numbers 1 to 16**

1. Ganita Sutras range (Sutra 1 to 16) and the numbers 1 to 16 have parallel
format features.
2. The features of sequential range of numbers 1 to 16 are contributing features
for the organization of Ganita Sutras 1 to 16.
3. To reach at this contribution, one may revisit the text of Ganita Sutras and
Ganita Upsutras and it would come to pointed focus as that:
   (i) Text specifically avails formulations for the numbers values (0, 1, 2, 7,
9, 10)
   (ii) This range of values (0, 1, 2, 7, 9, 10) as a jump over number values (3,
4, 5, 6, 8).
   (iii) This five fold numbers values range (3, 4, 5, 6, 8) permits chase as per
the classification as first class of four consecutive values (3, 4, 5, 6) and
as single value class (8).
4. One may have a pause here and take note that quadruple values (3, 4, 5, 6) is
parallel to four fold manifestation layer of hyper cube 5.
5. Further as that artifice 8 accept re-organization as $8 = 2^3$.
6. Still further as that $8 = 3 + 5$, which is parallel to super imposition of solid
order upon transcendental (5-space) domain.
7. Let us have a fresh visit to the text of Ganita Sutras and Upsutras and it would
come to pointed focus that it avails the word formulation ‘अंक’
8. It would be relevant to note that TCV (अंक) = 8.
9. Still further it also would be relevant to note that TCV (एक) = 8
10. Still further as that TCV (द्वारा) = 16.
11. One may have a pause here and to comprehend the above values features particularly of (अंक) Ank (one) as 8 and of number value एक One as well being of TCV value 8 parallel to TCV value (अंक).
12. Still further it also would be relevant to note that TCV value (द्वारा) / Dwiy (two) being 16 which is double of TCV value of (एक) which is 8.
13. The above features will bring to focus the paired values pair (8, 16) which is parallel to domain boundary formulation of domain boundary ratio of hyper cube 8 being A^8 : 16B^7.
14. One may have a pause here and take note that this as such would help us comprehend chase of Ganita Sutras 1 to 16 in pairs as Ganita Sutras (1, 2), (3, 4), (5, 6), (7, 8), (9, 10), (11, 12), (13, 14), (15, 16).
15. One may further have a pause here and to revisit the text of Ganita Sutras 1 to 16 and to notice that range of Sutras 1 to 14 classifies itself distinctively.
16. One shall have a pause here and to revisit following four Sutras and Upsutra

Ganita Sutra 1 एकाधिकेन पूर्वेण।
Ekadhikena Purvena.
By One More than One before

Ganita Sutra 13 सौपान्त्यद्वयमात्रनम्
Sopantyadvayamantyam
The ultimate and twice the penultimate

Ganita Sutra 14 एकन्यूनेन पूर्वेण
Ekanyunena Purvena
By One less than the One Before

Ganita Upsutra 4 कैवल्यः सप्तकं गुण्यातुः
Kevalaih Saptakam Gunyat
Only Seven as multiplicand

17. Ganita upsutra 4 ‘कैवल्यः सप्तकं गुण्यातुः’ focuses upon the format features of number ‘7’ and as to the role of artifices range 1 to 7. The focus of Ganita upsutra 4 is upon the reach up till power 7.
18. This focus amongst others, is a focus upon the role and reach of power 7 which shall be taking us to the role and reach of hyper cube 7.
19. One may have a pause here and take note that 7 is the biggest prime of the range of 9 numerals of ten place value system.
20. Further it also would be relevant to note that all the eight corner points of cube can be coordinated by seven edges with their arrangement of sequential progression starting from first corner and attaining reach up till the eighth corner of the cube.
21. Still further it also would be relevant to note that hyper circle 1 to 7 increase while circle 8 onwards decrease.
22. These features will help us comprehend and appreciate as to the classification of the range of Ganita Sutras 1 to 16, as first sub range being of Sutra 1 to 14 and second sub range being of Sutras 15 and 16.
23. One may further have a pause here and take note that the range of numbers 1 to 14 has 13 gaps with 1st gap between the numbers pair (1, 2) and 13th gap being
between the number 13, 14 and availability of 13 upsutras and hence of numbers range 1 to 13 would permit imposition of these 13 values to fulfill the 13 gaps under reference

24. Still further it also would be relevant to note that working rule of Ganita Sutra 1 ‘one more than before’ leads to linear sequential progression format while the working rule of Ganita Sutra (one less than before) leads to linear sequential progression of reverse order.

25. One may have a pause here and take note that this way the simultaneous availability of pair of orientations will help bridge the gap between a pair of ends by attaining neutrality with the pair of opposite orientations.

26. One may further have a pause here and take note that the working rule of Ganita Sutra 13 is of values and features of ‘सोपान’ / domain being the complete expression between the pair of end points.

27. One may have a pause here and take note that it is parallel to the domain boundary ratio formulation $A^n: 2n B^{n-1}$.

28. One may have a pause here and permit the transcending mind to continuously remain in prolonged sitting of trans and see how the spatial order (2-space in the role of dimension) because of simultaneous availability of a pair of orientations attains neutrality (zero order) / 0-space in the role of dimension of 2-space (spatial order)

29. One may further have a pause here and take note that TCV (जाग्रत) = 16, TCV (तुष्य) = 29 and TCV (नुष्य) = 16 & TCV (तुष्य) = 29 is parallel to the organization range of artifices pair (16, 13) is further parallel to range of 16 Ganita Sutras and 13 Ganita Upsutras

30. One may further have a pause here and take note that it would permit a chase of self referral (6-space) range of six steps (1, 2, 3, 4, 5, 6), in both orientations i.e. as (1, 2, 3, 4, 5, 6) and also as (6, 5, 4, 3, 2, 1).

31. One may further have a pause here and take note that $6 = 2 \times 3 = (-2) x (-3)$.

32. Further $4 = 2 \times 2 = (-2) x (-2)$

33. Still further Earth to Sun range is of six steps (Earth, Water, Fire, Air, space, Sun) and its chase in reverse orientation (Sun, Space, Air, Fire, Water Earth) would be parallel to numbers values range (1, 2, 3, 4, 5, 6) with ‘Earth’ as number value ‘6’.

34. It would be relevant to note that NVF (Earth) = 52 = NVF (Six)

35. It also would be relevant to note that Vedic Systems workout placement of Sun as 6-space parallel to the placement of first vowel Akara.

36. Still further it also would be relevant to note that Ganita Sutra 1 has the working rule of one more (एकाचिक्षेत) of east (पूर्वेण) which would mean one step from Sun, which can be towards the Earth, as well as can be towards away from the Sun, towards Pole star which is of seventh placement and also is of placement at origin of Sun / 6-space / solar universe.