Sri – Om
VEDIC MATHEMATICS AWARENESS YEAR

Swami Bharati Krshna Tirtha Ji Maharaj
(1884-1960)

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 122

Vedic Mathematics and Modern Mathematics

I.   Vedic Mathematics and Modern Mathematics
II. Second phase of applied values of Vedic Mathematics
III. First assumption of the Book: Analytical Solid Geometry
IV. Conics to Conicoids

V
To Bag bodies to reach at space bed of bodies

1. Surfaces envelop solids.
2. Surfaces as such bag solids.
3. Surface bags, as surfaces are of features enveloping solids make space of such surface bags synonyms of solids, being designated as 'solids content volume' are simply as 'volume'.
4. Vedic Systems approach it as '*sopan*' (सोपान), accepting simple English rendering as 'domain'.
5. Ganita Sutra 13 (सोपान्त्यद्वयमन्त्यम्) *Sopantyadvayamantyam* 'The ultimate and twice the penultimate' leads to and focus upon the glaring feature as that domain fold is enveloped within boundary fold of twice components ($A^n:2nB^{n-1}$).
6. One may have a pause here and take note that interval accepts a pair of end points, square accepts two pairs of boundary lines, cube accepts three pairs of surface plates, hyper cube 4 accepts 4 pairs of solids / cubes and so on.

7. One may have a pause here and take note that this feature is focusing upon values of enveloping boundary of domains.

8. And, 'domain' itself expresses itself as domain within a dimensional frame.

9. Ganita Sutra 1 एकाधिकेन पूर्वेण । *Ekadhikena Purvena*, sequentially leads us to, particularly together with the proportionality rule of Ganita Upsutra-1 आनुरूप्येण । Anurupyena to sequential progressions:

   i.   1, 2, 3, 4, 5, ---
   ii.   1 x 1, 1 x 2, 1 x 3, 1 x 4, 1 x 5, ---
   iii.   1 x 1 x1, 1 x 1 x2, 1 x 1 x3, 1 x 1 x4, 1 x 1 x5, ----
   iv.   --

10. Parallel to these sequential progressions would follow sequential progressions of linear units, spatial units, solid units and so on.

11. Linear progression units of values (1, 2, 3, 4, 5, ----) are of coverage range of line (1-space) measures.

12. Spatial progression units of values (1x1, 1x2, 1x3, 1x4, 1x5, ----) are of coverage range of spatial (2-space) measures.

13. Solid progression units of values (1x1 x 2, 1x1x2, 1x1x3, 1x1x4, 1x1x5, ----) are of coverage range of Solid (3-space) measures.

14. One may have a pause here and take note that the above sequential progressions shall be accepting expression formats of single linear axis, pair of linear axes and triple linear axes.

15. The first sequential progression along the format of single linear axis may be taken as a first axis (x, y). the second sequential progression of pair of axes format may be taken (x axis and y axis dimensional frame of horizontal plane.

16. The third sequential progression along triple axes format (x axis, y axis, z axis) will lead to a three dimensional frame set up with z axis as the vertical axis.

17. One may have a pause here and revisit Ganita Sutras 1, 2 and 3 respectively, in that sequence and order and to glimpse their working rules being of organization formats parallel to the formats of above three fold sequential progressions of single axis, pair of axes and all the three axes format of a three dimensional frame.

18. Before we proceed further to reach at the working rule of Ganita Sutra 4, and its organization format, one may have a pause here and be face to face with number '4' being a step ahead of first triple of numbers (1, 2, 3)

and to comprehend the distinguishing feature of '4' being the first composite number of special features: $4 = 2 + 2 = 2 \times 2 = (-2) \times (-2)$

19. One may further have a pause here and take note that $1+ 2 + 3 + 4 = 10$, and that of the range of ten numbers (1, 2, 3, 4, 5, 6, 7, 8, 9, 10), first triple (1, 2, 3) and the last triple (8, 9, 10) distinguish themselves as that while neither of (1, 2, 3) is composite while each of (8, 9, 10) is a composite number.

20. And the middle quadruple (4, 5, 6, 7) is of alternative composites and primes.

21. One may further have a pause here and take note that the range of ten number (1, 2, 3, 4, 5, 6, 7, 8, 9, 10) accepts the organization and split, as of three parts (1, 2, 3), (4, 5, 6, 7), (8, 9, 10) which is of the feature (3, 4, 3), as much as that first part (1, 2, 3) is of three numbers, second part (4, 5, 6, 7) is of four numbers and third part (8, 9, 10) is of three numbers membership respectively.

22. One may further have a pause here and take note that artifices triple (3, 4, 3) is parallel to geometric formats triple split for a three dimensional frame, with first part being the set up of three dimensions of first part of three dimensional frame of half dimensions.

23. Second part being the origin of three dimensional frame, which is a seat and set up of 4-space.

24. And third part again is a set up of three dimensions of second part of three dimensional frame of half dimensions.

25. One may have a pause here and revisit this split of a three dimensional frame into a pair of three dimensional frames of half dimensions as a pair of parts of the split while third part being the origin of three dimensional frame as of middle placement

26. One may further have a pause here and to revisit and recapitulate as that (surfaces, boundary folds as space bags) of solids (3-space bodies), is the geometric envelope / boundary frame.

27. The dimensional frame of solids / domain fold are the internal organization frame of domain fold (solids). As such the chase of the features of domain fold (solids) is to be in terms of the internal organization of the domain by and as within a three dimensional frame of three linear axes.

28. With it, the whole focus of chase of the internal organization of domain folds of solids would get centered around the set up of three dimensional

frame itself, with it the organization of three dimensional frame itself would come at the center of chase.

29. This would bring us face to face with the synthetic set of a three dimensional frame availing three linear dimensions (axes) and fourth origin (joint) of three dimensions themselves.

30. The emerging split of three dimensional frame into a pair of three dimensional frames of half dimensions would bring us face to face with the synthetic set up of a three dimensional frame.

31. One may have a pause here and be face to face with the features of split of cube into 8 sub cubes parallel to split of space within a three dimensional frame into 8 octants.

32. One may further have a pause here and take note that the cube (domain fold) splits into 8 parts and 3 dimensions splitting into 6 half dimensions.

33. As such, for chase of internal organization of the domain fold we have to be conscious of parallel unfolding of organization of domain fold vis-à-vis the organization features of the dimensional frame

34. The 'analytical solid geometry' which remained confined to the analysis of surfaces of solids, naturally is not taking it to be concerned with the 'internal organization of domains of solids'.

35. Taking modern Mathematics to be the development of 17th and subsequent centuries AD while the English language is of prior times, as such one way to have comparative chase for the conceptual development of modern Mathematics and of prior times, we may revisit English (classical and orthodox) vocabulary and may find that NVF(Mathematics) = NVF (Square) + NVF (Cube) and NVF (Monad) + NVF (Monad) =NVF (Trimonad) lead to conceptual formats of different values than those of modern Mathematics.

36. The chase of modern Mathematics of domains while remaining confined to boundaries is certainly of bad limitations.

37. The conceptual format of simultaneous chase as 'square and cube' / boundary fold and domain fold / domains folds enveloped within boundary folds is of real promises.

38. Further pairing of monads giving reach to trimonad is of the features of dimensional synthesis values (1, 1) = 3 / pair of linear dimensions synthesizing a solid domain value.

39. These conceptual formats of classical and orthodox English language indicate and demonstrate as to how Vedic Systems had gone Universal and modern systems to have breakthrough from the conceptual dead lock

of blocked mental states shall transcend through ancient wisdom of Vedic Systems.

 To be continued….   *

*   **28-02-2015**   Dr. S. K. Kapoor, *(Ved Ratan)*

Increditable India format

Today let us think of Vedic sounds to appreciate increditable India format, education policy direction, skills development vision and creation of jobs pool.

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Earth to Pole Star Unity format Values

(Black Matter and Light)

Be parallel to Creations format

Increditable India format

Increditable India format remains parallel to creations format of Lord Brahma, creator the Supreme lord of four heads, with each head equipped with a pair of eyes and sits gracefully upon a lotus seat of eight petals and meditates within cavity of his own heart upon transcendental Lord Shiv and multiplies ten fold as Ten Brahmas to be parallel to Dwadash Adityas (12 Suns) and thereby makes blissfully the manifested creations being transcendental as well as self referral

Also see at http://mygov.in/group_info/incredible-india

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Education policy direction

The Education Policy Direction shall be specific for ensuring that one convincingly learn to be wise for being parallel to Creations format. For it each one is to be enlightened about the way manifested creations go transcendental and self referral way. For this enlightenment one is to get initiated the way one is to meditate within cavity of one's own heart to be self referral. Being self referral, one is to enrich one's consciousness states to give direction to one's intelligence field.

Also see at http://mygov.in/group_info/new-education-policy   *

Skills development vision

The skills development vision is to be parallel to education policy direction to follow the creations format. The aim being to make manifested creations as of transcendental values, as such skills development that way are to be of that format itself. To make manifested creations the transcendental way requires enlightenment to put wisdom for pure and applied values go parallel to each other to impart such knowledge is a challenge which can be met by enlightened souls only.

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Also see at http://mygov.in/group_info/skill-development

Jobs creation pool

Jobs creation pool would be virtues only if the manifested creations values can be transformed into transcendental virtues by the persons on the job. As such to have continuous evaluation of the virtues index of jobs creation pool, itself is going to be top job of jobs creation pool. This top job, naturally is of enlightened souls themselves. This being so, the jobs creation pool is going to be of inherent features and values which shall be self fountaining by enlightened souls themselves

Also see at http://mygov.in/group_info/job-creation

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