

Sri – Om
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'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.

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VMS & T Text books
(Classes 9, 10, 11 & 12)

Outline of
Text Book Class X (4-space)

Lesson -12

Unity State

1. Manifestation format of 4-space leads to unity state features for whole range of manifested creations manifesting along the Idol of Lord Brahma.
2. Idol of Lord Brahma itself is of manifestation format features parallel to four fold manifestation layer of hyper cube – 4.
3. The spatial order of 4-space settles the Unity state as an organization because of a pair of flow streams parallel to pair of axes of the spatial order.
4. This leads to 4 x 4 grid / matrix format permitting organization for quadruple folds of quadruple hyper cubes as under :

1	2	3	4
2	3	4	5
3	4	5	6
4	5	6	7
5. These 16 values organization avails seven steps long range of values (1, 2, 3, 4, 5, 6, 7, 8) which settles and manifests unity state format.
6. Linear order 3-space with 3-space content manifesting as domain fold of hyper cube 3 of

ISSUE NO 85

Content	Pages
Outline of Text book Class X	
Lesson -12 Unity State	01-03
Lesson -13 Creator & Creations	04-06
Lesson -14 Transcendence Phenomenon	07-09
Lesson -15 Along Sun Rays	09-09
For Pointed Attention	10-10

- 7 versions parallel to 7 geometries range of 3-space is the expression of manifestation values along the above unity state format.
7. This unity state format expression of manifestation of 3-space content, sequentially leads us to (i) Linear order (ii) Spatial boundary (iii) Solid domain (iv) Creative (4-space) origin (v) transcendental (5-space) base of origin (vi) self referral (6-space) format for the transcendental (5-space) base and finally unity state for the self referral (6-space) format of transcendental (5-space) base of creative origin of manifested domain fold of 3-space content enveloped within spatial boundary and accepting linear measure for its measuring rod.
 8. The above 7 steps long range of features of linear order 3-space are parallelly available for spatial order 4-space, solid order 5-space and hyper solid orders of hyper domains as well.
 9. It would be a blissful exercise to chase unity state format for the spatial order 4-space manifestation expression as hyper cube 4 with transcendental (5-space) origin, self referral (6-space) base for transcendental (5-space) origin, unity state format for self referral (6-space) base and eight fold nature manifesting unity state.
 10. The unity state format range of spatial order (4-space) would be of values range (2, 3, 4, 5, 6, 7).
 11. It would be blissful to sequentially chase above values as (i) spatial dimensional order (ii) solid boundary (iii) creative domain (iv) transcendental (5-space) origin (v) self referral (6-space) base (vi) Unity state format and (vii) eight fold nature as unity states reservoir of values.
 12. A step ahead the unity state range values for solid order 5-space would be (3, 4, 5, 6, 7, 8, 9),
 13. It would be blissful to chase this unity state format values range as (i) Solid dimensional order (ii) Creative boundary (iii) transcendental (5-space) domain (iv) self referral (6-space) origin (v) Unity state base (vi) Eight fold format and (vii) nine space as unity values reservoir.
 14. One may have a pause here and take note that sequentially the unit state format values are getting embedded into the origin reservoir of the unity state format itself.
 15. The unity state format for spatial order set up of creative domain gets embedded into the eight fold nature (8-space) of 7-space.
 16. This as such deserve to be comprehended well for its complete appreciation and full imbibing to have through insight about this Phenomenon of Unity state values getting embedded into the origin of unity state format itself (origin of 7-space).
 17. This way, it initiates transcendence at the origin of unity state itself through its origin along the compactification cord of origins beginning with eight fold nature (8-space).
 18. One may further have a pause here and take note that this in a way amounts to transition and transformation from the set up of 1^3 to 2^3 set ups of 3-space content lumps.

19. The transition from $1^3 = 1^3$ to $2^3 = 8$ cubes would be parallel to the split of a cube into 8 sub cubes parallel to the split of 3-space into 8 octants because of a three dimensional frame with its origin being the seat of 4-space.
20. One may have a pause here and take note that amongst others, one of the features which deserve to be comprehended well in the above context is the fixation of 4-space points in terms of eight cubes parallel to the set up of solid boundary of eight component of hyper cube 4.
21. The transcendence at 4-space origin would lead to transcendence base along the compactification cord of origins.
22. Here it also would be relevant to note that 5-space plays the role of dimension of 7-space.
23. As such the transcendence along the compactification cord, in a way is going to be transcendental (5-space) features parallel to transcendental (5-space) order of unity state.
24. One may further have a pause here and take note that with 7-space as pole star origin of solar universe, the transcendence progression along the compactification cord starting with 4-space as origin shall be leading to 7-space as 5-space as dimension shall be leading to 7-space as domain.
25. One may further have a pause here and take note that 7-space as domain shall be fountaining 7-space content (black matter) into the solar universe through and along its transcendental (5-space) dimensional order which shall be getting super imposed upon the creative (4-space) order of solar universe (sun / 6-space).
26. This as such would bring us face to face with split of 7 steps long unity range (1, 2, 3, 4, 5, 6, 7) into a pair of parts of three steps long sub range (1, 2, 3) and four steps long sub range (4, 5, 6, 7).
27. This split is parallel to the split of seven geometries range of 3-space as triple negative geometries sub range and quadruple non negative geometries sub range of 3-space
28. The transcendence at the middle value (4) of seven geometries range permitting organization as [(1, 2, 3) (4) (5, 6, 7)] and the transcendence triple (4, 2, 0) leading to 0 value and thereby there being transition and transformation for above 7 steps long range as (-3, -2, -1), (0), (1, 2, 3) brings to focus as to how the spatial order of creator's space (4-space) as a pair of streams parallel to pair of dimensions of spatial order settle its organization format as grid zones with centers of grid zones as seat for compactification cord permitting transcendence for transition and transformation for spatial order to solid order and further from solid order to hyper solid orders as a feature of unity state format for whole range of manifested creations with creator's space (4-space).

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Outline of
Text Book Class X (4-space)

Lesson -13

Creator and Creations

1. Vedic Systems accepts Lord Brahma as the creator the Supreme.
2. The creation format is of the features of Idol of Lord Brahma.
3. The prominent features of Idol of Lord Brahma are that:
 - i. Lord Brahma is a four head lord.
 - ii. Each head of Lord Brahma is equipped with a pair of eyes.
 - iii. Lord Brahma sits gracefully upon the lotus seat of eight petals.
 - iv. Within cavity of heart of Lord Brahma is the seat of Lord Shiv, five head transcendental (5-space) lord
 - v. Lord Brahma meditates within his cavity of his own heart upon Lord Shiv and with the grace of transcendental (5-space) lord, Lord Brahma multiplies as 10 Brahmas.
4. These features of Idol of Lord Brahma are parallel to the manifestation features of hyper cube 4, as much as that:
 - i. Four heads of Lord Brahma are parallel to four dimensions of hyper cube 4.
 - ii. Pair of eyes in each head of Lord Brahma are parallel to spatial order of dimensions of hyper cube 4.
 - iii. Lotus seat of eight petals is parallel to eight components of solid boundary of hyper cube 4.
 - iv. Seat of Lord Shiv, five head transcendental (5-space) lord within cavity of heart of Lord Brahma is parallel to 5-space as origin fold of hyper cube 4.
 - v. Lord Brahma multiplies as ten Brahmas by meditating within cavity of his own heart upon Lord Shiv, five head transcendental (5-space) lord, which is parallel to 5-space playing the role of origin of hyper cube 4 and there being permissibility of transcendence at origin which leads to transition from the format of hyper cube 4 to format of hyper cube 5 of domain boundary ratio $A^5:10B^4$.
5. With it, Lord Brahma acquires his role as creator being of the format values range parallel to $10 \times 8 = 80$ cubes coverage for all the ten creative boundary components of transcendental (5-space) domain.
6. Further the creation features range becomes parallel to $8 \times 10 = 80$ cubes set up as above plus five cubes / solids contribution by five solid

dimensions frame for transcendental (5-space) domain and thereby making it to be a full range of 85 cubes, parallel to 85 Anuwaks of Rigved.

7. One may have a pause here and have a fresh look at the above expression ranges of creative order (4-space as dimension) manifesting as creative boundary of transcendental (5-space) domain and as creative dimensional order of self referral (6-space) domain with unity state (7-space) as its origin.
8. It would be blissful to re-chase transcendental (5-space) base for manifested creations.
9. It would further be very blissful to chase transcendence through manifested creations to their transcendental (5-space) base.
10. It still further be very blissful to chase pole star (7-space) fountaining transcendental (5-space) black matter providing base for manifestation of creative order content fountained by Sun (6-space).
11. One may have a pause here and take note that the manifested creations along black matter base are of the format and features of 'half black' features and values.
12. It is this feature of being 'half black' format, whose comprehension appreciation and imbibing would help acquire insight about the porous nature of 4-space, Sunlight being 'half black' and that linear domains are of reverse orientation order.
13. This organization of pair of direct and reverse orientations being simultaneous available deserve to be chased.
14. This chase is going to be of the reach of 'middle' / 'center' / 'origin' being fixed and carried in a neutralized state as a structured point providing track for the transcendental (5-space) black matter flow as a zero value envelope for linear domain
15. The emerging triple value (-1, 0, +1) and its, of its own extension as (-1, -0, 0, +0, +1), with middle triple (-0, 0, +0) with its own middle (0) as neutralized state 0 would be the reach, which deserve to be comprehended fully for its through appreciation and complete imbibing to have full insight about creation and the creator
16. The sequential formats of hyper cube, hyper solid and hyper sphere will help unfold the features of creations and of the creator
17. The reach uptill eight fold nature and parallel format of hyper cube 8 as four fold manifestation layer (6, 7, 8, 9) with summation value $(6 + 7 + 8 + 9) = 30$ parallel to the set up of 8 corner points, 12 edges, 6 surfaces, 1 volume and 3 dimensions shall be further providing us insight about the creations.
18. Of these 30 components set up of 8 corner points, 12 edges, 6 surfaces, 1 volume and 3 dimensions, the volume is only 1 component and remaining

- 29 components are the manifestation base for the domain fold manifestation as 3-space content lump.
19. Artifice value 29 parallel to above referred 29 components set up for manifestation of 3-space content lump deserve to be chased as Avakato-Avakatat (अव्यक्तो अव्यक्तात्) / Sanatana (सनातनः), the eternal base of unmanifest; 5-space content set up.
 20. Artifice 29 accept re-organization as $16 + 13 = 29$, which further permits re-organization as $(5 + 6 + 5) + (4 + 5 + 4)$.
 21. The organization (16+ 13) is parallel to the organization of 16 Ganita Sutras and 13 Ganita Upsutras.
 22. The chase of creation and the creator in terms of the working rules of Ganita Sutras and Upsutras will fulfill wisdom with Enlightenment.
 23. For **First** reach step in this directions shall be to reach at hyper cubes formats with the help of Ganita Sutras and Upsutras.
 24. **Second** reach step would be to reach at hyper solids formats with the help of Ganita Sutras and Upsutras.
 25. **Third** sequential step of this enlightenment reach would be at format of hyper spheres for the origin folds.
 26. **Fourth** attainment steps would be to work out transition from one manifestation layer to next manifestation layer by following the transcendence process.
 27. **Fifth** reach step is going to be in the form of settlement of transcendental (5-space) carriers path for carrying black matter to fulfill the solar universe.
 28. And **Final** reach step would be to be parallel to the process of creative manifestations along the black matter base within solar universe.

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Lesson -14

Transcendence Phenomenon

1. Transcendence Phenomenon attains transition from given manifestation layer format to the next manifestation format.
2. Manifestation format is a four fold format while the transcendence format is a five fold format.
3. Four fold format is of four folds set ups namely of dimension fold, boundary fold, domain fold and origin fold.
4. The origin fold being the four fold, the same as such is of spatial order features.
5. This spatial order feature provides grid format parallel to the set ups of rows and columns of square format.
6. The manifestation format as such becomes the creation format of 4 x 4 format and the transcendence format, as such becomes 5 x 5 format.
7. The 4 x 4 creation format is of the organization features:

1	2	3	4
2	3	4	5
3	4	5	6
4	5	6	7

8. The transcendence format is of the features

1	2	3	4	5
2	3	4	5	6
3	4	5	6	7
4	5	6	7	8
5	6	7	8	9

9. The 5 x 5 transcendence format as a set up of 5 transcendental (5-space) rows and 5 transcendental (5-space) columns, that way becomes a set up of 5 transcendence ranges rows and 5 transcendence ranges columns.
10. The transcendence row range row (1, 2, 3, 4, 5) is a set up of a pair of consecutive creation rows (1, 2, 3, 4) and (2, 3, 4, 5), this way along each transcendence range row there emerges a transition from the creation / manifestation layer (1, 2, 3, 4) to the next creation / manifestation layer (2, 3, 4, 5).
11. As such 5 x 5 transcendence format is a sequential step of 5 transitions steps namely (i) transition from (1, 2, 3, 4) to (2, 3, 4, 5) (ii) From (2, 3, 4, 5) to (3, 4, 5, 6) (iii) from (3, 4, 5, 6) to (4, 5, 6, 7) (iv) From (4, 5, 6, 7) to (5, 6, 7, 8) and from (v) (5, 6, 7, 8) to (6, 7, 8, 9).
12. Here it would be relevant to note that hyper cube 4 accepts 9 versions parallel to 9 geometries range of 4-space.

13. It would further be relevant to note that numeral 5 is of middle placement of 9 numerals range (1, 2, 3, 4, 5, 6, 7, 8, 9).
14. Still further it also would be relevant to note that four fold creation / four fold manifestation layer (1, 2, 3, 4) accepts transition into five fold transcendence range (0, 1, 2, 3, 4) with retaining summation value $1 + 2 + 3 + 4 = 10 = 0 + 1 + 2 + 3 + 4$.
15. Still further it also would be relevant to note that ten points lead to 9 linear units.
16. Still further it also would be relevant to note that while 4-space has 9 geometries range, the creative boundary of 5-space is of ten components.
17. One may have a pause here and to revisit the above features and to comprehend these features leading to a transition from the set up of hyper cube 4 to the set up of hyper cube 5.
18. Still further, it would be blissful to be face to face the transcendental (5-space) Phenomenon that Lord Brahma sits gracefully on lotus seat and meditates within the cavity of his own heart upon Lord Shiv and with the grace of transcendental lord, Lord Brahma multiplies as ten Brahmas in Shiv lok.
19. This transition from creative 4-space to transcendental (5-space) deserve to be comprehended fully for its complete appreciation to have its full imbibing to acquire through insight about this transcendence Phenomenon.
20. It would be a very blissful exercise to reach at transcendence from the manifestation layer (2, 3, 4, 5) to transcendence range (2, 3, 4, 5, 6).
21. It would be the Phenomenon of transcendence from transcendental (5-space) to self referral (6-space).
22. One may have a pause here and take note that hyper cube 5 has 11 versions parallel to 11 geometries of 5-space while the transcendental (5-space) boundary of self referral (6-space) domain / hyper cube 6 is of 12 components.
23. It would be relevant to note that this transcendence Phenomenon is of the format and features of transcendence from the format of hyper cube 5 to the format of hyper cube 6.
24. A step ahead it would be a blissful exercise to have transcendence from the manifestation layers (4, 5, 6, 7) by extending it as a transcendence range (4, 5, 6, 7, 8).
25. This transcendence would be of the format and values of transcendence from the format of hyper cube 6 to the format of hyper cube 7.
26. One may have a pause here and take note that hyper cube 6 is having 13 versions parallel to 13 geometries range of 6-space while the self referral (6-space) boundary of unity state (7-space) is of 14 components.

27. A still further transcendence from the format of hyper cube 7 to hyper cube 8 would be of the format and features of extension of four fold manifestation layer (5, 6, 7, 8) to transcendence range (5, 6, 7, 8, 9).
28. Here it would be relevant to note that hyper cube 7 is of 15 versions while the unity state boundary of natural state set up of hyper cube 8 is of 16 components.
29. Still further it also would be relevant to note that the transition from the format of hyper cube 8 to the format of hyper cube 9 is attainable by extension of four fold manifestation layer format (6, 7, 8, 9) into five fold transcendence range (6, 7, 8, 9, 10).

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Lesson -15

Along Sun Rays

1. Vedic Systems organize themselves parallel to flow along Rays of Sun.
2. The basic conceptual terms which needs be chased for its format, features, values and virtues is 'रश्मिनुसारी:'.
3. This formulation avails basic conceptual formulation: रश्मिः.
4. The connected formulations which as well need be chased along with above conceptual term are (i) सूर्यः Surya, (ii) प्रकाशः Parkash (iii) ज्योतिः Jyoti (iv) कृष्ण द्वैपायनः Krishan Dwaypan (v) व्यासः Vyas (vi) वेद व्यासः Ved Vyas (vii) आर्चिकः Archik (viii) ऋक् Rik (ix) यजुर् Yajur (x) साम Sam (xi) अथर्व Atharav.
5. Vedic Systems avail and work with the range of 28 Vyas (diameters) while the present day Mathematics systems are held up at diameters of hyper circles 1 to 7 as from hyper circle 8 onwards there are decreasing values whose behavior has been a mystery for the present day system.
6. These outline features are to be taken as basis for the settlement of the text book of class X.

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FOR POINTED ATTENTION

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2. First outline of the VMS & T text books for classes 9, 10, 11 and 12 has been drawn and the same is shared in the issues of E-newspaper.
3. All are welcome to pool their knowledge and experience at e-mail address (vedicganita@vedicganita.org) and contribution of everybody would be duly acknowledged.

Organizers