

Sri – Om  
**VEDIC MATHEMATICS AWARENESS YEAR**

E-Newsletter Issue no 42 dated 24-11-2014

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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.*

Dr. S. K. Kapoor  
Sh. Rakesh Bhatia  
Sh. Bhim Sein Khanna  
Sh. Deepak Girdhar  
- Organizers

**ISSUE NO 42**

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श्री ॐ (Sri Om)

शिव पुराण (Shiv Puran)

**Vedic Mathematics, Science & Technology**

**SOURCE SCRIPTURE**

**Tabulation of Affine state values and virtues of transcendental (5-space) domains as these manifests as transcendental features and are preserved in Shiv Puran**

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1. Transcendental virtuous, values and features constitute a big range parallel to  $10^9$  shlokas formats of wholesome Puran unfolded by Lord Shiv Himself.
  2. The chase for these values, virtues and features, initially are to be had along the format of re-organization of above format of  $10^9$  values, by Maharishi Vyas as of  $4 \times 10^4$  shlokas range.
  3. This chase as such will extend over the range of 18 Purans  
(i) Brahma Puran ब्रह्म पुराण (ii) Padama Puran पद्म पुराण (iii) Vishnu Puran विष्णु पुराण (iv) Shiva Puran शिव पुराण (v) Bhagavata Puran भागवत पुराण (vi) Bhavishya Puran भविष्य पुराण (vii) Narada Puran नारद पुराण (viii) Markandeya Puran मारकण्डेय पुराण (ix) Agni Puran अग्नि पुराण (X) Brahma Vaivarta Purāṇam ब्रह्म वेवर्त पुराण (xi) Linga Puran लिंग पुराण (xii) Varāha Purāṇam वराह पुराण (xiii) Skanda Purāṇam स्कन्द पुराण (xiv) Vāmana Purāṇam वामन पुराण (xv) Kūrma Purāṇam कर्म पुराण (xvi) Matsya Purāṇam मतस्य पुराण (xvii) Garuda Purāṇam गरुण पुराण (xviii) Brahmāṇḍa Purāṇam ब्रह्मन्न्द पुराण

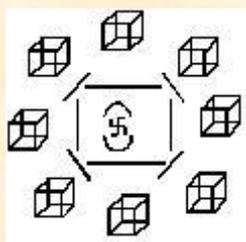
2. Of this 18 Purans range, the initiation is to be with the fourth placement Puran, namely Shiv Puran which is of 24000 shalokas range organized as seven samhitas text, namely

- 1- विदेश्वर संहिता Vidyeshvara Samhita (of 2000 shalokas range)
- 2- रुद्र संहिता Rudra Samhita (of 10500 shalokas range)
- 3- सतरुद्र संहिता Satrudra Samhita (of 2180 shalokas range)
- 4- कोटि रुद्र संहिता Kotirudra Samhita (of 2240 shalokas range)
- 5- उमा संहिता Uma Samhita (of 1840 shalokas range)
- 6- कैलाश संहिता Kailash Samhita (of 1240 shalokas range)
- 7- वायव्य संहिता Vayaviya Samhita (of 4000 shalokas range)

3. This fourth placement Puran namely Shiv Puran text, prominently brings to focus, the first feature of transcendental (5-space) domains being that it is parallel to the idol (ling and murti) of Lord Shiv, the five head lord. And, with it the first entry of tabulation / enlistment attempt of affine state transcendental (5-space) domain as of manifested features comes to be number / artifice 5 and 5 space.
4. This being so, we may have a pause here and let us revisit our present day format of comprehension instructions being imparted to young minds during schooling period of our education system.
5. Vedic Systems expectations are that young minds shall be sequentially exposed to Existence Phenomenon in its all aspect which deserves to be faced as of four folds parallel to Triloki and Trimurti formats, which shall be of the virtuous values and features of 3-space, 4-space, 5-space and 6-space respectively and same may be taken up as the virtuous sources for Vedic mathematics, Science & Technology text books for high and higher secondary school level i.e. for 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> classes.
6. As such the present tabulation exercise of transcendental (5-space) virtues, values and features shall be helping us settle the VMS & T text book of 5-space for class 11.
7. Ganita Sutras 1 to 5 shall be helping us sequentially reach the values format of number / artifice, 5-space / hyper cube 5, Ganita Sutra 1 with its rule 'one more than before' shall be sequentially taking us as 1, 2, 3, 4 and 5 / 1-space, 2-space, 3-space, 4-space, 5-space / hyper cube 1, hyper cube 2, hyper cube 3, hyper cube 4 and hyper cube 5. Ganita Sutra 2 shall be with its rule all from 9 and last from 10 shall be leading us to the 9 geometries range of 4-space and as a last step, the transition is to be as creative (4-space) as boundary of transcendental (5-space) of ten components. Ganita Sutra 3 with its rule 'vertically and crosswise, shall be leading us to the parabolic format for manifestation of solid dimensional frame of five solid dimensions sequentially as solid dimensions synthesis values to be (3, 5, 6, 5, 3). Ganita Sutra 4 with its value 'Transpose and apply' will provide a reach for the synthesis values parabolic format range of solid dimensional frame for transcendental (5-space) domains (3, 5, 6, 5, 3) permitting to be worked out in terms of its first part as (3, 5, 6) or with its second part (6, 5, 3). However here it would be relevant to note

that the middle placement value (6) is having its role in both halves. Further it also would be relevant to note that the synthesis value of pair of solid dimensions  $(3, 3) = 5$  while the summation value  $(3 + 3) = 6$ , as such will help us appreciate the value of Shiv Puran as that even a blade of grass cannot be split (in two parts, impliedly as that the synthetic joint value is the third part). Ganita Sutra 5 with rule of sunyam (zero value) is depicted by parallel equal collectivity values because of their equality and as such being no equality in values making difference of value being zero. It is this reach for the middle synthetic joint of pair of halves of integrally structured set up, is being attained along the format of Ganita Sutra 5 for the transcendental (5-space) domains.

8. The middle placement of five amongst the triple (4, 5, 6) and  $4 = 2 + 2 = 2 \times 2 = (-2) \times (-2)$  and  $6 = 1 + 2 + 3 = 1 \times 2 \times 3 = 2 \times 3 = (-2) \times (-3) = (-1) \times (-1) \times (-2) \times (-2) \times (-3) \times (-3)$ , are the features which shall be fixing the values format of '5'.
9. This fixation along the formats triple of 'hyper cube 4, hyper cube 5, hyper cube 6' deserve to be chased.
10. Hyper cube 4 as a four fold manifestation layer (2, 3, 4, 5) approaches 5-space in the role of origin fold.
11. On the other hand hyper cube 6 as a four fold manifestation layer (4, 5, 6, 7) approaches 5-space in the role of boundary of 6-space. This pair of approaches for 5-space will help us have a reach at different values and features of 5-space. The unsolvability of 5<sup>th</sup> degree equation and the structural set up of pentagon within pentagon leading to ad-infinitum process together with the features of artifices triple (4, 5, 6) and 5-space playing different roles as dimensional fold, boundary fold, domain fold and origin fold and also as base of origin fold would provide us insight **for settlement of the text book of 5-space for class XI student of Vedic mathematics, Science & Technology.**
12. One way to initiate studies of 5-space is with location of 5-space as origin of 4-space / origin fold of hyper cube 4 as four fold manifestation layer (2, 3, 4, 5).



13. Hyper cube 4 format is parallel to the idol of Lord Brahma (4 head lord with a pair of eyes in each head, sitting gracefully upon the lotus seat of eight petals and meditating within cavity of his own heart upon the transcendental (5-space) lord).



14. Lord Brahma meditates and with grace of transcendental (5-space) lord, Lord Brahma multiplies as ten Brahmas:



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24-11-2014

Dr. S. K. Kapoor, (Ved Ratan)

## News and Views

### Invitation for participation in Vedic Mathematics textbooks project

#### *INVITATION*

1. We are undertaking the project of settling Vedic Mathematics text books for schools.
2. This project is for settlement of text books of Vedic Mathematics for classes eight to twelfth.
3. Text book for each class would be of three parts  
Part – 1 'Vedic Mathematics for class VIII  
(likewise for class 9, class 10, class 11 and class 12)  
Part – 2 'Vedic Mathematics exercises for class VIII'  
(likewise for class 9, class 10, class 11 and class 12)  
Part – 3 'Teaching and evaluation manual of Vedic Mathematics for class VIII'  
(likewise for class 9, class 10, class 11 and class 12)
4. Each sutra and Upsutra would be taken up in separate section exclusively devoted to particular Sutra / Upsutra.
5. This way in all, there would be 29 sections for coverage of all the sixteen Sutras and 13 Upsutras.
6. Participants may contribute for all the 29 sections but each Sutra and Upsutra shall be taken up as independent aspect of values of mathematics as every Sutra values are to be covered in distinct section.
7. The intellectual contribution of participants shall be duly recognized and same shall be properly respected.
8. In the light of this theme, we shall be making separate requests for each sutra and upsutra.

#### Request of participation about the values of Ganita Upsutra 3

आघमाघेनान्त्यमन्त्येन ।

First with first Last with last

1. We feel privileged to request all to participate in our project of Vedic Mathematics text books for classes eight to twelfth.

2. We request you all to participate and contribute your intellectual inputs about the values of Ganita Upsutra 3.
3. Also contribute about the values of Ganita Upsutra 3 as being complemented and supplemented by the values of other Sutras and Upsutras.
4. We shall be highly thankful for this participation and contribution.
5. We shall be duly recognizing this participation and contribution of intellectual inputs about the values of Ganita Upsutra 3.
6. We shall be highly being our respects and thanks in recognition of the intellectual inputs of participants.
7. It is a noble cause.
8. Please participate.

**24-11-2014**

Sh. Rakesh Bhatia  
 Sh. Bhim Sein Khanna  
 Sh. Deepak Girdhar  
 - Organizers

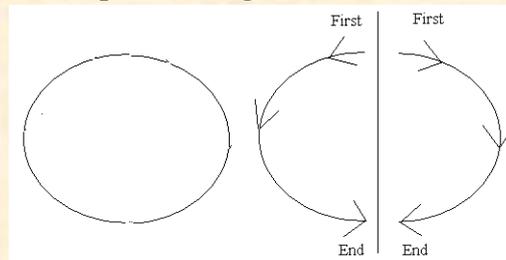
**(CHAPTER FROM BOOK 'VEDIC MATHEMATICS (ORGANIZATION FORMAT OF GANITA SUTRAS) OF DR. S. K. KAPOOR )**

### **TRANSITION FROM GANITA UPSUTRA-3 TO GANITA UPSUTRA-4**

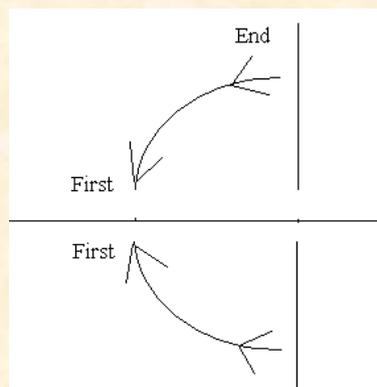
1. Ganita upsutra-4 केवलैः सप्तकं गुण्यात् / *Kevalaih Saptakam Gunyat*) literally means only uptill (केवलैः / *Kevalaih*) seventh ( सप्तकं / Saptakam) power (multiplication).
2. This, in short would mean that the gaps bridging sequence, as such is to be only up till seventh power.
3. Here one may have a pause and permit the transcending mind to comprehend the ancient wisdom for the sequential enlightenment steps to be in the order and values of the quadruple (1, 2, 3, 8).
4. The quadruple (1, 2, 3, 8) which sequentially in its fourth step transcends the linear sequencing (1, 2, 3) takes to the spatial sequencing as that this quadruple accepts re organisation as (1 x 1), (1 x 2), (1 x 3) and (2 x 4).
5. At a fourth step there is a transcendence from the linear three dimensional set up of Tri-Loki (3-space) to Creator's Space (4-space).
6. It is relevant to note that it is this phase and stage of transition from linear 3-space to spatial 4-space, which is the point of focus of Ganita Upsutra-4.
7. It may be relevant to note that most of the problems of modern mathematics are there because of it accepting linear order as the binding thread for the format of its axioms.
8. It is because of this inherent limitations of the linear order that the modern mathematics is confronted with the puzzle of their being an increase up till

(hyper) circles 1 to 7 while (hyper) circle 8 onwards there being the decrease.

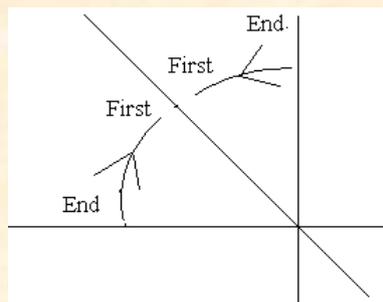
- One shall sit comfortably and permit the transcending mind to chase the transition from Ganita Upsutra-3 to Ganita Upsutra-4, whereby the linear bridging of Gaps between the pair of end points is to be sequenced firstly up till 7 gaps and then from 8<sup>th</sup> Gap onwards, the linear sequencing format along the interval format is to transit into sequencing format along the circumference of a circle permitting chase as a reflection pair of half circles.



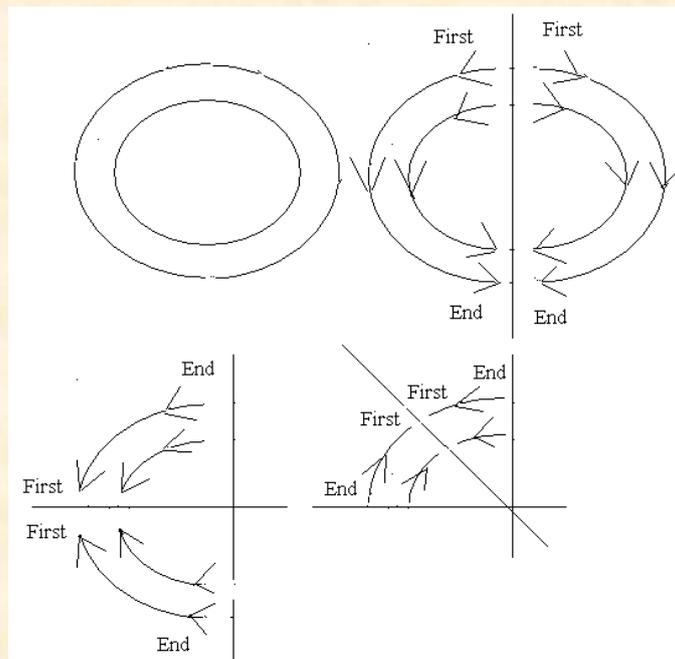
- A Step ahead, further pairing is to be as



- Still further step to be as



- And like that would follow the sequential chase along the circumference format.
- The applied value of this chase format along circumference would be equally available even for pairing of segments of circumferences of the concentric circles, step wise would be as follows:-



14. Vedic systems avail 5 concentric circles/ *Panchvariti* format.
15. One may have a pause here and take the hint of the initial linear sequential steps as being of 7 steps long range, and ahead the spatial sequential steps range being of 5 steps long range.
16. One shall sit comfortably and permit the transcending mind to chase transition steps taking from Ganita Upsutra-3 to Ganita Upsutra-4 availing linear 7 sequential steps range and ahead from Ganita Upsutra-4 to Ganita Upsutra-5 by availing spatial 5 sequential steps range of concentric circles formats.

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### VEDIC MATHEMATICS QUIZ MEET

**विज्ञान मॉडल  
स्पर्धा में नवीन और  
अंश रहे प्रथम**

जींद | बीकानेर के लालगढ़ में आयोजित अखिल भारतीय ज्ञान-विज्ञान मेले में गोपाल विद्या मंदिर स्कूल के विद्यार्थियों ने बेहतर प्रदर्शन किया। प्रिंसिपल सतेंद्र त्रिपाठी ने बताया कि राष्ट्रीय स्तर की प्रतियोगिता में विज्ञान मॉडल में नवीन व अंश ने पहला स्थान पाया, जबकि मानसी दूसरे स्थान पर रही। वैदिक गणित प्रतियोगिता में जितेंद्र, सोनू, विशाल ने दूसरा स्थान पाया। प्राचार्य ने विज्ञान विभाग के एचओडी नरेंद्र, गणित अध्यापक इंद्रजीत, विकास व मीनू तायल को राष्ट्रीय स्तर पर सफलता के लिए बधाई दी।



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## SIXTEEN SŪTRAS AND THEIR COROLLARIES

Sūtras	Sub-Sūtras or Corollaries
1. एकाधिकेन पूर्वेण <i>Ekādhikena Pūrveṇa</i> (also a corollary)	1. आनुरूप्येण <i>Ānurūpyeṇa</i>
2. निखिलं नवतरचरमं दशतः <i>Nikhilam Navataścaramaṃ</i> <i>Daśataḥ</i>	2. शिष्यते शेपरंज्ञः <i>Śiṣyate Śeṣasaṃjñāḥ</i>
3. ऊर्ध्वतिर्यग्भ्याम् <i>Ūrdhva-tiryagbhyām</i>	3. आद्यमाद्ये नान्त्यमन्त्येन <i>Ādyamādyenāntyamantyaena</i>
4. परावर्त्य योजयेत् <i>Parāvartya Yojayet</i>	4. केवलैः सप्तकं गुण्यात् <i>Kevalaiḥ Saptakaṃ Guṇyāt</i>
5. शून्यं साम्यसमुच्चये <i>Śūnyam Sāmyasamuccaye</i>	5. वेष्टनम् <i>Veṣṭanam</i>
6. (आनुरूप्ये) शून्यमन्यत् <i>(Ānurūpye) Śūnyamanyat</i>	6. यावदूनं तावदूनम् <i>Yāvadūnaṃ Tāvadūnaṃ</i>
7. संकलनव्यवकलनाभ्याम् <i>Saṅkalana-vyavakalanābhyām</i> (also a corollary)	7. यावदूनं तावदूनोक्त्य वर्गं च योजयेत् <i>Yāvadunaṃ Tāvadūnikṛtya</i> <i>Vargaṅca Yojayet</i>
8. पूरणापूरणाभ्याम् <i>Pūraṇāpūraṇābhyām</i>	8. अन्त्ययोर्दशकेऽपि <i>Antyayordasāke'pi</i>
9. चलनकलनाभ्याम् <i>Calana-kalanābhyām</i>	9. अन्त्ययोरेव <i>Antyayoreva</i>
10. यावदूनम् <i>Yāvadūnam</i>	10. समुच्चयगुणितः <i>Samuccayagunitaḥ</i>
11. व्यष्टिसमष्टिः <i>Vyaṣṭisamaṣṭiḥ</i>	11. लोपनस्थापनाभ्याम् <i>Lopanasthāpanābhyām</i>

12. शेषाण्यङ्केन चरमेण <i>Śeṣāṅyāṅkena Caramēṇa</i>	12. विलोकनम् <i>Vilokanam</i>
13. सोपान्त्यद्वयमन्त्यम् <i>Sopāntyadvayamantyaṃ</i>	13. गुणितसमुच्चयः समुच्चयगुणितः <i>Gunitasamuccayah Samuccayaguṇitah</i>
14. एकन्यूनेन पूर्वेण <i>Ekanyūnena Pūrveṇa</i>	
15. गुणितसमुच्चयः <i>Gunitasamuccayah</i>	
16. गुणकसमुच्चयः <i>Guṇakasamuccayah</i>	

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**Vedic mathematics, Science & Technology**

**Text Book for class 11  
(5-space)**

**Chapter – 1: Number 5**

All are requested to join this project and pool in their knowledge and experience.

Organizers

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