

List of VM Consolidated documents of Dr. S. K. Kapoor

List 1 Different aspects of Vedic Mathematics

Aspect 37

Parallel formats of VGS & IF

1. Conceptual base
2. Intelligence field & integrated format of Ganita sutras & upsutras
3. Source Sutra and source upsutra
4. Vishnu Puran

Parallel formats of Vedic Ganita sutras & Upsutras and Intelligence field created by mind

1

CONCEPTUAL BASE

Introductory

Vedic scriptures, including Ganita sutras and upsutras have reached us in devnagri¹. The Devnagri format is of (पञ्चवृत्तय) panachvritya² / five folds. For conceptual base of texts in devnagri, we have to reach at from letters alphabet to numbers alphabet³, and a step ahead, from number alphabet to sathapatya⁴ format.

Conceptual base

Mana (मन) / Mind is an organ of Manav Shreer (मानव शरीर) / Human body. Human body manifests⁵ along (पुरुष सत्ता) pursha format. It is a 6-space (स्थापत्य) sathapatya. Mind creates (बुद्धि क्षेत्र) Bhudhi khestra / intelligence field. Word formulation (बुद्धि) Budhi, (पृथिवि) Prithvi and (विष्णु) Vishnu are of equal TCV values⁶. Vishnu is the over lord of 6-space. The first letter of the text of Vedic Ganita sutras and

upsutras is the sixth vowel. The number value 6 and 6-space as sathapatya (geometric format), are of parallel formats features, as per complementary and supplementary unification feature and value of Sankhiya Nishta and Yoga Nishta. Letter (6th vowel) format of letters alphabet transit and transforms into number value 6 as numbers value alphabet format of devnagri alphabet. A step ahead, number value 6 as of numbers alphabet transits and transforms into 6-space sathapatya / geometric format of devnagri alphabet. It is this feature of devnagri alphabet as compactified formats which become basis base of parallel formats chase of intelligence field created by mind as organ of human body, and the organization format of text of Ganita sutras and upsutras.

Intelligence growth with learning of Vedic mathematics processing steps of Ganita sutras and upsutras

Each system has its own characteristic way to work out and to avail the system. Likewise, Vedic mathematics of Ganita sutras and upsutras, as well have their own characteristic way to work out and to avail their values. Though Ganita sutras and Ganita upsutras are complete mathematical domains of their own right but otherwise their mathematical domain are complementary and supplementary of each other and they together manifests and integrated organization format for them. That initially the learning focus for the student is to remain upon values and process of Ganita sutras while the teaching focus of teachers remains upon the values and complementary process of Ganita upsutras.

First feature of integrated format

The first feature of integrated format of 16 ganita sutras and 13 ganita upsutras comes to be parallel with values and features of number value $16+13 = 29$, which is parallel with the transcendental code value of formulation Brahma.

Brahma (the presiding deity of 4-space) is four head lord. He is the presiding deity of the measure of the sathapatya measuring rod⁷, as well as measuring rope. While Vishnu (the presiding deity of 6-space) is the presiding deity of sathapatya measuring rod. With it, the integrated format of Ganita sutras and upsutras emerges to be of creative order (4-space as dimension of 6-space) parallel with the creative dimensional frame of 6 dimensions of 6-space being of value $4 \times 6 = 24$, parallel with TCV value of formulation Pursha.

Other connected features of Ganita sutras and upsutras⁸

Values range 1 to 16 gives rise to 29 factors parallel with integrated format range of value 16 parallel with 16 ganita sutras and value 13 being parallel with 13 ganita upsutras.

Ganita sutra-1 is the source sutra and Ganita upsutra-1 is the source upsutra. The text of Ganita sutra 1 is a composition of 16 letters, while the text of Ganita upsutras is a composition of 10 letters. The number value 16 is of organization feature $16 = 6 + 10$. Number value 6 is parallel with the summation value of four folds (0, 1, 2, 3) of hyper cube 2, the representative regular body of 2-space while number value 10 is parallel with the summation value of four folds (1, 2, 3, 4) of hyper cube 3, the representative regular body of 3-space.

Further, number value 6 as formulation (षट्) Shat while formulation (षट्) Shat is of TCV value 10. Still further number value 10 as formulation (दश) Dash is of TCV value 10 itself. Still further number value $10 + 6 = 16$ is the formulation (षोडश) which is of TCV value $26 = 16 + 10$.

These features together is making detailed compactibility of manifestation of text of Ganita sutras and upsutras as well as of

human body of 6-space format. As such, learning and teaching of vedic mathematics of Ganita sutras and upsutras, in the sequence and order of sutras and upsutras of integrated format attains natural sequential growth of intelligence field for young minds ensuring their perfection of the vedic order.

As the Vedic Ganita sutras and upsutras text is of foundational format of devnagri, as such the learning and teaching of vedic mathematics is to be initiated with the devnagri alphabet itself.

References:

1. Devnagi letters alphabet.

Devnagri Alphabet with placement value

देवनागरी वर्णमाला

Nine vowels

अ इ उ ऋ लृ ए ओ ऐ औ

5 x 5 Varga consonants

क ख ग घ ङ
 च छ ज झ ञ
 ट ठ ड ढ ण
 त थ द ध न
 प फ ब भ म

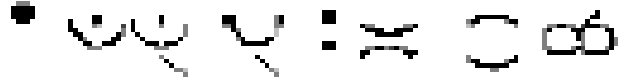
Anthsthaletters:

क र ल व

Ushmana letters:

श स ष ह

Yamaletters



2-4 Devnagri alphabet is a compactified alphabet of five folds: Letters alphabet, Numbers alphabet and sathapatya alphabet which itself is of three folds of external, middle and internal characteristics features: Research Paper-1.

Numbers alphabet

Devnagri Alphabet with placement value

देवनागरी वर्णमाला

Nine vowels

अ इ उ ऋ लृ ए ओ ऐ औ
1 2 3 4 5 6 7 8 9

5 x 5 Varga consonants

क ख ग घ ङ 1 2 3 4 5
च छ ज झ ञ 2 3 4 5 6
ट ठ ड ढ ण 3 4 5 6 7
त थ द ध न 4 5 6 7 8
प फ ब भ म 5 6 7 8 9

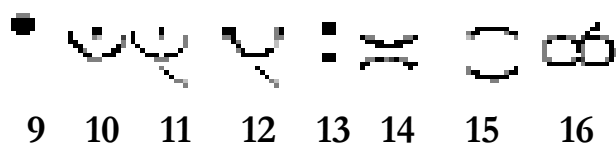
Anthsthaletters:

क र ल व
1 3 5 7

Ushmana letters:

श स ष ह
2 3 6 9

Yamaletters



Sathapatya alphabet

R1	1	2	3	4	5	6	7	8	9
R2	1S	2S	3S	4S	5S	6S	7S	8S	9S

R1 = Number value, R2 = Sathapatya of number value

Sathapatya alphabet: External features

R1	1	2	3	4	5	6	7	8	9
R2	1S	2S	3S	4S	5S	6S	7S	8S	9S
R3	2	4	6	8	10	12	14	16	18

R1 = Number value, R2 = Sathapatya of number value, R3 = External Features as boundary components of the hyper cube

Sathapatya alphabet: Middle features

R1	1	2	3	4	5	6	7	8	9
R2	1S	2S	3S	4S	5S	6S	7S	8S	9S
R4	2	3	4	5	6	7	8	9	10

R1 = Number value, R2 = Sathapatya of number value, R4 = Middle Features as the middle signature geometry of space

Sathapatya alphabet: Middle features

R1	1	2	3	4	5	6	7	8	9
R2	1S	2S	3S	4S	5S	6S	7S	8S	9S
R5	2	6	10	14	18	22	26	30	34

R1 = Number value, R2 = Sathapatya of number value, R5 = Summation value of four folds of the hyper cube

5 Vedic systems accept creations as four folds manifestation (hyper cubes).

6 TCV values

The summation value of the placement value of letters alphabet of individual letters of the word formulation is the TCV value of the word formulation. The individual letters placement values are the individual TCV values of the respective letters. Sum of all the TCV values of the letters of the word becomes the TCV values of the word itself.

7 Measuring rod

Manasara, the scripture of sathapatya upved of athrav ved settles the values and features of sathapatya measuring rod and measuring rope.

S No	Word	TCV
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1	मन	19
2	मानव शरीर	28+14
3	पुरुष सत्ता	24+14
4	स्थापत्य	22
5	बुद्धि क्षेत्र	25+19
6	बुद्धि	25
7	पृथिवि	25
8	विष्णु	25
9	षट्	10
10	दश	10
11	षोडश	26

8 Texts of Ganita Sutras and Upsutras

Ganita Sutra

(1) एकाधिकेन पूर्वेण । (2) निखिलं नवतश्चरमं दशतः । (3) ऊर्ध्वतिर्यग्भ्याम् । (4) परावर्त्य योजयेत् । (5) शून्यं साम्यसमुच्चये । (6) (आनुरूष्ये) शून्यमन्यत् । (7) संकलनव्यवकलनाभ्याम् । (8) पूरणापूरणाभ्याम् । (9) चलनकलनाभ्याम् । (10) यावदूनम् । (11) व्यष्टिसमष्टिः । (12) शेषाण्यङ्केन चरमेण । (13) सोपान्त्यद्वयमन्तम् । (14) एकन्यूनेन पूर्वेण । (15) गुणितसमुच्चयः । (16) गुणकसमुच्चयः ।

Ganita Upsutra

(1) आनुरूष्येण । (2) शिष्यते शेषसंज्ञः । (3) आघमाघेनान्त्यमन्त्येन । (4) केवलैः सप्तकं गुण्यात् । (5) वेष्टनम् । (6) यावदूनं तावदूनम् । (7) यावदूनं तावदूनीकृत्य वर्गं च योजयेत् । (8) अन्त्ययोर्दशकेऽपि । (9) अन्त्ययोरेव । (10) समुच्चयगुणितः । (11) लोपनस्थपनाभ्याम् । (12) विलोकनम् । (13) गुणितसमुच्चयः समुच्चयगुणितः ।



**Parallel formats of Vedic Ganita sutras & Upsutras and
Intelligence field created by mind**

2

**INTELLIGENCE FIELD & INTEGRATED FORMAT
OF GANITA SUTRAS & UPSUTRAS**

Introductory

Formulation (बुद्धि क्षेत्र) *budhi Ksehetra* / intelligence field is of TCV value 44 which is parallel with TCV of formulation (परम व्योम्) Pram Vyom / transcendental space. the value 44 with its organization 22+22 is parallel with H6 + H6, and further (6, 6) = (8) takes us to H8 = (6, 7, 8, 9) = 30 = TCV (चतुष्पीठ), presided by lord Brahma, four head lord. The formulation (ब्रह्मा) is of TCV 29, which is parallel with the integrated format of 16 Ganita Sutras and 13 Ganita Upsutras. As such, at the initial stage itself, one shall full expose to the broad features and values of integrated format of Ganita sutras and upsutras.

Integrated format of Ganita sutras and upsutras

Ganita sutras, as well as Ganita upsutras are complete scriptures in themselves, and they, at the same time are complementary and supplementary of each other. Both Ganita sutras and upsutras consititute and integrated format. Ganita upsutras bridge the gaps in between the consecutive Ganita sutras.

Ganita sutras 8 & 9, as well as Ganita sutras 15 & 16, are of 16 letters each, and as such they because of the inherent potentialities of spatial order dimensional frame of quadruple spatial dimensions of 4-space, as of value 2^4 , bridge the gap of their own. This way the placements of Ganita upsutras in between the consecutive Ganita sutras, make an integrated format for Ganita sutras and Ganita upsutras of 29 steps, as follows:

S N	Placement of Sutra / Upsutra
1	Sutra-1
2	Upsutra-1
3	Sutra-2
4	Upsutra-2
5	Sutra-3
6	Upsutra-3
7	Sutra-4
8	Upsutra-4
9	Sutra-5
10	Upsutra-5
11	Sutra-6
12	Upsutra-6
13	Sutra-7
14	Upsutra-7

15	Sutra-8
16	Sutra-9
17	Upsutra-8
18	Sutra-10
19	Upsutra-9
20	Sutra-11
21	Upsutra-10
22	Sutra-12
23	Upsutra-11
24	Sutra-13
25	Upsutra-12
26	Sutra-14
27	Upsutra-13
28	Sutra-15
29	Sutra-16

Re-organization of integration format

The integrated format of Ganita sutras and usputras accepts re-organization, firstly parallel with the range of 29 factors of numbers range 1 to 16. And secondly, as per the integrated format of

reflection pairs of double digits numbers of upper part of 9x11 grid beneath the 13th chapter of Srimad Durga Sapt Sati.

First re-organization

Numbers range 1 to 16 leads to factors 1 to 9, of following factors placements for the numbers range 1 to 16 and parallel to it the re-organization of integrated format of Ganita sutras and upsutras comes to be as under:

Sutra	Number	Factors	Placement of sutra	Placement of upsutra
1	1	1	Sutra-1	
2	2	1	Sutra-2	
3	3	1	Sutra-3	
4	4	2	Sutra-4	Upsutra-1
5	5	1	Sutra-5	
6	6	2	Sutra-6	Upsutra -2
7	7	1	Sutra-7	
8	8	3	Sutra-8	Upsutra-3 & 4
9	9	2	Sutra-9	Upsutra -5
10	10	2	Sutra-10	Upsutra -6
11	11	1	Sutra-11	
12	12	3	Sutra-12	Upsutra-7 & 8
13	13	1	Sutra-13	
14	14	2	Sutra-14	Upsutra -9
15	15	2	Sutra-15	Upsutra -10
16	16	4	Sutra-16	Upsutra-11, 12, 13

Second re-organization

The upper part 9x11 grid of double digit number of ten place value system is as follows:

R/C	C1	C2	C3	C4	C5	C6	C7	C8	C9
R1	01	02	03	04	05	06	07	08	09
R2	10	11	12	13	14	15	16	17	18
R3		20	21	22	23	24	25	26	27

R4			30	31	32	33	34	35	36
R5				40	41	42	43	44	45
R6					50	51	52	53	54
R7						60	61	62	63
R8							70	71	72
R9								80	81
R10									90

This above part is integrating 29 reflection pairs, of which (11, 22, 33, 44) are four self reflecting artifices pair of repeated digits for both places of these double digits numbers. Further, the following nine reflection pair are having '0' as one of the digits of double digit numbers:

- (i) (01, 10), (ii) (02, 20), (iii) (03, 30), (iv) (04, 40),
(v) (05, 50), (vi) (06, 60), (vii) (07, 70), (viii) (08, 80),
(ix) (09, 90)

These four self reflecting pair and nine reflection pairs with 0 as one of the digit, make a class of $4+9 = 13$ reflection pairs.

The remaining reflection pairs of above upper part of grid of 9×11 are 16 in number, namely:

- (i) (12, 21), (ii) (13, 31), (iii) (14, 41), (iv) (23, 32),
(v) (15, 51), (vi) (16, 61) (vii) (25, 52) (viii) (34, 43)
(ix) (24, 42), (x) (17, 71), (xi) (26, 62), (xii) (35, 53),
(xiii) (18, 81), (xiv) (27, 72), (xv) (36, 63), (xvi) (45, 54)

The above pair of classes of 13 and 16 reflection pairs as of placement format for 13 upsutras and 16 sutras, make the following organization for the integrated format of upsutras and sutras.

S No.	Upsutra	Reflection pair	Sutra	Reflection pair
1	Upsutra-1	(01, 10)		
2	Upsutra-2	(02, 20)		
3	Upsutra-3	(11)		
4	Upsutra-4	(03, 30)		
5			Sutra-1	(12, 21)
6	Upsutra-5	(04, 40)		
7			Sutra-2	(13, 31)
8	Upsutra-6	(22)		
9	Upsutra-7	(05, 50)		
10			Sutra-3	(14, 41)
11			Sutra-4	(23, 32)
12	Upsutra-8	(06, 60)		
13			Sutra-5	(15, 51)
14			Sutra-6	(24, 42)
15	Upsutra-9	(33)		
16	Upsutra-10	(07, 70)		
17			Sutra-7	(16, 61)
18			Sutra-8	(25, 52)
19			Sutra-9	(34, 43)
20	Upsutra-11	(08, 80)		
21			Sutra-10	(17, 71)
22			Sutra-11	(26, 62)
23			Sutra-12	(35, 53)
24	Upsutra-12	(44)		
25	Upsutra-13	(09, 90)		
26			Sutra-13	(18, 81)
27			Sutra-14	(27, 72)
28			Sutra-15	(36, 63)
29			Sutra-16	(45, 54)

Chatushpeet

Formulation (चतुष्पीठ) Chatushpeet is of TCV value 30. Ten folds of this formulation TCV are as follows:

Formulation (चतुष्पीठ)

चतुष्पीठ

	च	तु	ष्पी	ठ	
TCV	3	7	15	5	30
L	2	2	3	2	9
TT	6	-12	0	12	6
FF	42	42	63	42	189
F	24	20	37	20	101
H	8	24	52	16	100

W Phase-1	Word	1	1
S Phase-2	Syllables	4	5
L Phase-3	Letters	9	14
T Phase-4	TCV	30	44
TT Fold-1	Transcendental flow	6	50
FF Fold-2	Pronouncing frequency	189	239
F Fold-3	Formulation	101	340
H Fold-4	Sathapatya body	100	440
R Fold-5	Transcendence range	240	680
SR Fold-6	Synthesis of transcendence range	510	1190

Idols of Brahma and Shiv


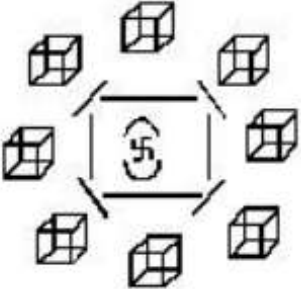
Brahma is a four head lord, with a pair of eyes in each head. He has a lotus seat of eight petals. Within cavity of heart of brahma is the seat of five head transcendental lord shiv.

Transcendental lord shiv is a five head lord, with 3 eyes in each head. He has ten long arms. Within cavity of his heart is the seat of self referral lord Vishnu.



The format features and values of idol of Brahma are parallel with the format features and values of hyper cube 4, the representative regular body of 4-space. Parallel table is as follows:

Idol of Brahma

Hyper cube 4



			
Heads	4	Dimensions	4
Eyes in each head	2	Dimensional order	Spatial (2-space as dimension)
Lotus seat petals	8	Boundary components	Solid boundary of 8 components
Seat in cavity of heart	(5-space Lord)	Origin fold	5-space

The format features and values of idol of Shiv are parallel with the format features and values of hyper cube 5, the representative regular body of 5-space. Parallel table is as follows:

			
Heads	5	Dimensions	4
Eyes in each head	3	Dimensional order	Spatial (2-space as dimension)
Arms	10	Boundary components	Creative boundary of 10 components
Seat in cavity of heart	(6-space Lord)	Origin fold	6-space

Transition and transformation from hyper cube 4 to hyper cube 5

Brahma mediates within cavity of his own heart and with the grace of transcendental lord shiv, brahma multiplies as ten brahmas as a result of transcendental transition and transformation for 4-space as domain to 4-space as boundary of ten components of transcendental domain

			
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Take off, of solid boundary components of creative boundary (4-space as boundary) of transcendental domain, in first phase manifests the outer space as (3, 4, 5, 6) / hyper cube 5 format and in the next phase manifests (6,7, 8, 9) / hyper cube 8: Chatuspeet.

Sum up and conclusion

To flourish (बुद्धि क्षेत्र) *budhi Ksehetra* / intelligence field of natural (अष्ट प्रकृति) *asht prakarti* order, one shall go parallel with integrated format of Ganita sutras and upsutras along Chatuspeet presided by lord Brahma, creator's supreme.


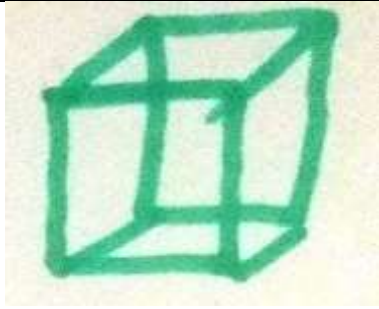
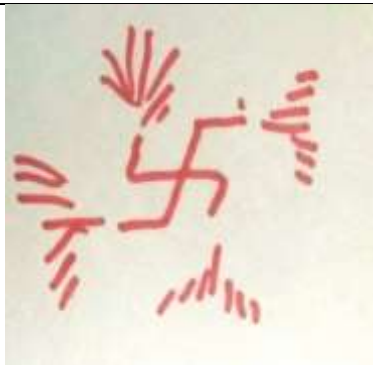
Along the integrated format, the organization of text letters of Ganita sutras and upsutras will be of following values expression:




S N	Placement of Sutra / Upsutra	Letters
1	Sutra-1	16
2	Upsutra-1	10
3	Sutra-2	28
4	Upsutra-2	18
5	Sutra-3	15
6	Upsutra-3	23
7	Sutra-4	17
8	Upsutra-4	21
9	Sutra-5	20


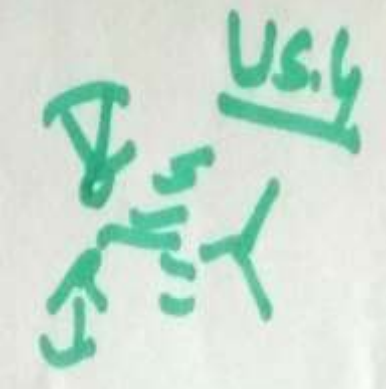

10	Upsutra-5	8
11	Sutra-6	19
12	Upsutra-6	18
13	Sutra-7	24
14	Upsutra-7	37
15	Sutra-8	16
16	Sutra-9	16
17	Upsutra-8	16
18	Sutra-10	9
19	Upsutra-9	11
20	Sutra-11	14
21	Upsutra-10	16




22	Sutra-12	20
23	Upsutra-11	17
24	Sutra-13	20
25	Upsutra-12	9
26	Sutra-14	17
27	Upsutra-13	32
28	Sutra-15	16
29	Sutra-16	16

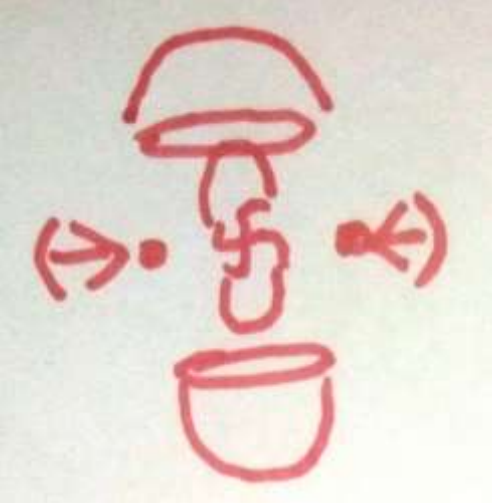
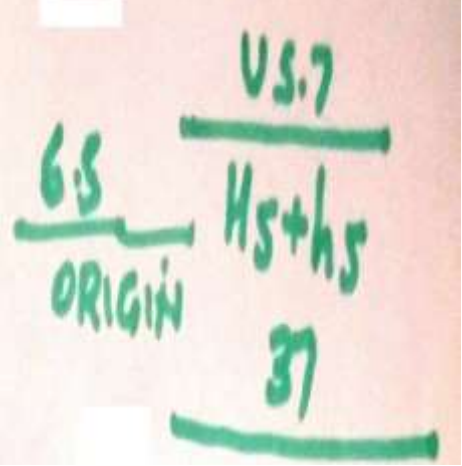
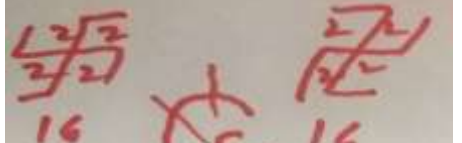
The sathapatya of above numbers values comes to be as follows:

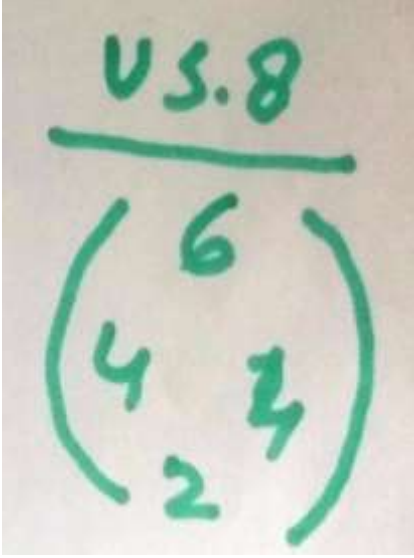
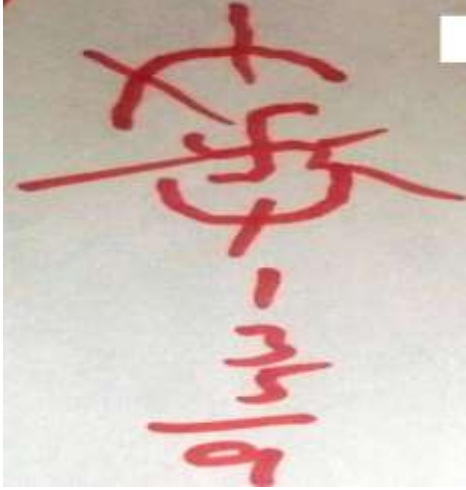
S N	Placement of Sutra / Upsutra	Letters	Sathapatya / geometric format
1	Sutra-1	16	 $2^4 = 16$
2	Upsutra-1	10	 $H3 = (1, 2, 3, 4) = 10$
3	Sutra-2	28	

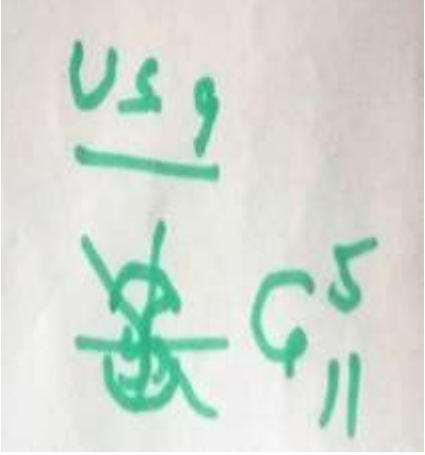
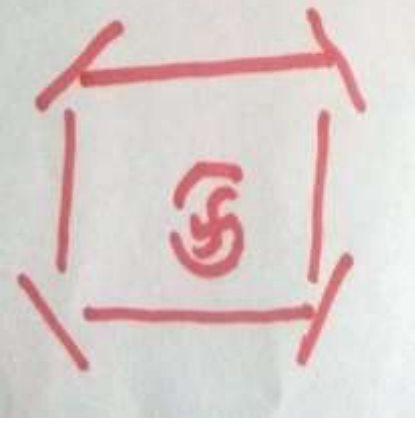
			$4 \times 7 = 28$
4	Upsutra-2	18	 $H5 = (3, 4, 5, 6) = 18$
5	Sutra-3	15	 $1 \times 3 \times 5 = 15$
6	Upsutra-3	23	 $3 + 5 + 3 \times 5 = 23$

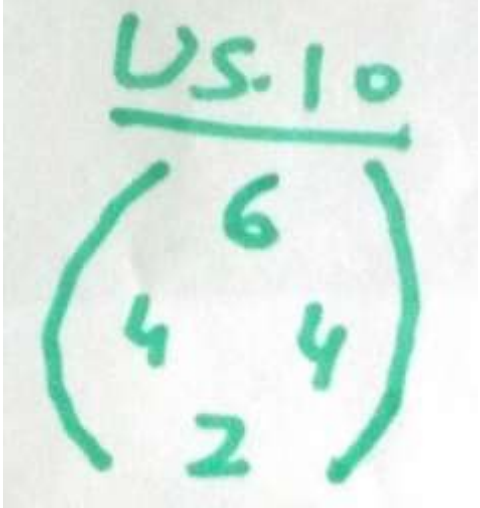
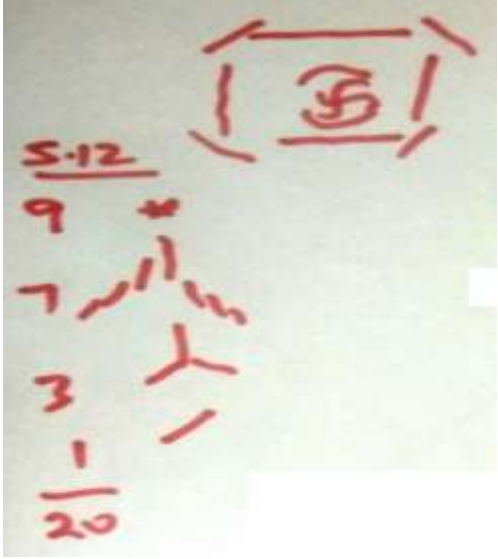
7	Sutra-4	17	 <p data-bbox="808 464 1195 579">Northern hemisphere Placement value 17</p>
8	Upsutra-4	21	 <p data-bbox="756 1041 1243 1136">Trishpta (3, 7) flow from 6-space origin</p>
9	Sutra-5	20	 <p data-bbox="764 1682 1243 1818">Divya ganga flow through sole syllable Om in northern hemisphere</p>

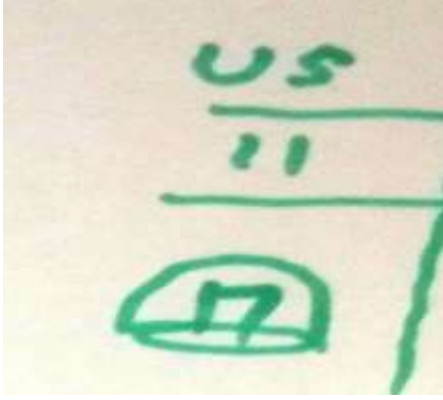
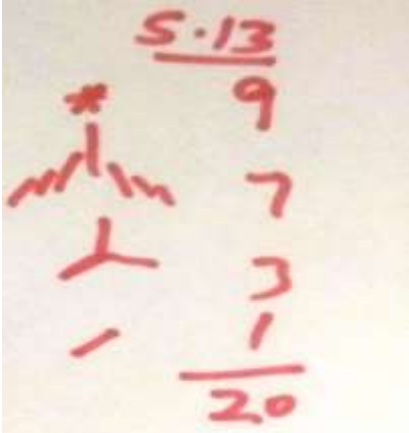
10	Upsutra-5	8	 <p data-bbox="800 621 1203 705">Asht prakrti / aakash tattav</p>
11	Sutra-6	19	 <p data-bbox="776 1003 1227 1142">Southern hemisphere placement value 19 = h5 (4, 4 ½, 5, 5 ½)</p>
12	Upsutra-6	18	 <p data-bbox="862 1577 1141 1692">Hyper cube 5 (3, 4, 5, 6) = 18</p>

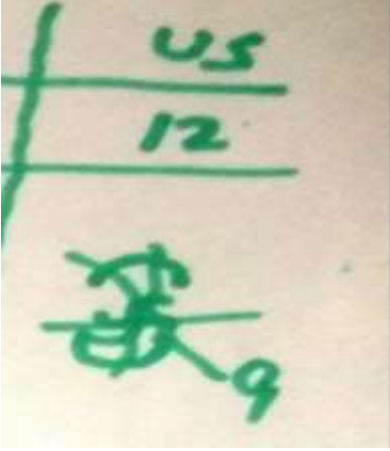

13	Sutra-7	24	 <p data-bbox="802 730 1201 823">$4 \times 6 = 24 =$ dimension frame of 6-space</p>
14	Upsutra-7	37	 <p data-bbox="802 1365 1201 1457">6-space as origin of 5-space of value $H5+h5$</p>
15	Sutra-8	16	

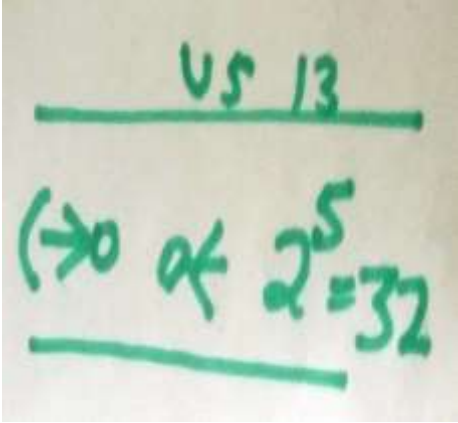

16	Sutra-9	16	Four dimensional frames in NHS & SHS
17	Upsutra-8	16	 <p data-bbox="787 913 1218 1003">6-space content split in northern hemisphere</p>
18	Sutra-10	9	 <p data-bbox="755 1560 1250 1703">1+3+5 = 9 along the dimensional frame of 5- space</p>


19	Upsutra-9	11	 <p data-bbox="781 680 1224 821">11 geometries of 5-space bodies as 11 versions of hyper cube 5</p>
20	Sutra-11	14	 <p data-bbox="878 1316 1122 1356">Hyper cube 4</p>

21	Upsutra-10	16	 <p data-bbox="760 737 1243 827">Split of 6-space content in southern hemisphere</p>
22	Sutra-12	20	 <p data-bbox="751 1457 1144 1547">Divya ganga flow in southern hemisphere</p>

23	Upsutra-11	17	 <p data-bbox="808 625 1195 814">Placement value of northern hemisphere along second axis of spatial dimension</p>
24	Sutra-13	20	 <p data-bbox="792 1318 1211 1455">Divya Ganga flow along second axis of spatial dimension</p>

25	Upsutra-12	9	 <p data-bbox="756 674 1247 863">1+3+5 = 9 along dimension frame of 5-space along second axis of spatial dimension</p>
26	Sutra-14	17	 <p data-bbox="756 1346 1247 1535">Placement of northern hemisphere along the third axis at the origin seat of spatial dimension</p>

27	Upsutra-13	32	 <p>Simultaneous Transcendence along both axes of spatial order at the seat of origin of 4-space.</p>
28	Sutra-15	16	 <p>4-space dimensional frame along the first axis of spatial dimension</p>

29	Sutra-16	16	 <p data-bbox="756 680 1247 814">4-space dimensional frame along the second axis of spatial dimension</p>
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So, organized and flourished intelligence field will go parallel with Chatushpeet and will have a reach an attainment of the order of Asht prakrti (8-space) of nav brahm (9-space) origin.

■

Parallel formats of vedic Ganita sutras and upsutras intelligence field created by mind

3

Source sutra & Upsutra values as intelligence growth steps values

Introduction

The initiation for intelligence growth of the format of vedic Ganita sutras and upsutras is to be with source sutra: Ganita sutra-1 and source upsutra: Ganita upsutra-1.

The text of source sutra is a complete scripture. This text is a composition of 16 letters as a pair of words of 9 and 7 letters respectively. The text of source upsutras as well is a complete scripture. This text is a composition of single word formulation of ten letters. Both Ganita sutra-1 and Ganita upsutra-1 make first two steps of the integrated format of Ganita sutras and upsutras. These together make a text of 26 letters organized as 3 word formulation. These organization features of Ganita sutra 1 and Ganita upsutra 1 together with their other transcendental code values and ten folds of the transcendental code values make a very big reservoir of values and features. Further, five folds of devnagri alphabet format lead to letters, numbers and sathapatya texts for Ganita sutra 1 and Ganita upsutra-1. This way the initiation parallel with mathematical processing steps of mathematical domain of Ganita sutra-1 and Ganita upsutra-1 lay proper foundation for appropriate initiation for full flourish-ment of the intelligent field parallel with the structural keys preserved here in the text of Ganita sutra-1 itself.

Translation of texts of Ganita sutra-1 and Ganita upsutra-1

Five compactified formats of devnagri alphabet lead to following five distinct texts of letters, numbers and sathapatya for Ganita sutra-1 and Ganita upsutra-1.

Texts of Ganita sutra-1

Formulation (एकाधिकेन)

	1	2	3	4	5	6	7	8	9
LT	ए	क्	आ	ष्	श्	क्	ए	र्	अ
NT	6	1	2	7	2	1	6	8	1
S	6S	1S	2S	7S	2S	1S	6S	8S	1S
H	H6	H1	H2	H7	H2	H1	H6	H8	H1
B (ST1)	12	2	4	14	4	2	12	16	2
MG (ST2)	7	2	3	8	3	2	7	9	2
SFF (ST3)	22	2	6	26	6	2	22	30	2

LT = letter text, **NT** = Numbers text, **S** = space, **H** = hyper cube,

B (ST1) = Boundary / External features sathapatya text, **MG (ST2)** = Middle geometry / middle feature sathapatya text and **SFF (ST3)** = sum of four folds of hyper cube / external features sathapatya text

Formulation (पूर्वेण)

	1	2	3	4	5	6	7
LT	प्	ऊ	ँ	व्	ए	ण	अ
NT	5	6	2	7	6	7	1
S	5S	6S	2S	7S	6S	7S	1S
H	H5	H6	H2	H7	H6	H7	H1
B (ST1)	10	12	4	14	12	14	2
MG (ST2)	6	7	3	8	7	8	2
SFF (ST3)	18	22	6	26	22	26	2

LT = letter text, **NT** = Numbers text, **S** = space, **H** = hyper cube,

B (ST1) = Boundary / External features sathapatya text, **MG (ST2)** = Middle geometry / middle feature sathapatya text and **SFF (ST3)** = sum of four folds of hyper cube /external features sathapatya text

Texts of Ganita Upsutra-1

Formulation (आनुरूप्येण)

	1	2	3	4	5	6	7	8	9	10
LT	आ	न्	उ	र्	ऊ	प्	य्	ए	ग्	अ
NT	2	8	3	3	6	5	1	6	7	1
S	2S	8S	3S	3S	6S	5S	1S	6S	7S	1S
H	H2	H8	H3	H3	H6	H5	H1	H6	H7	H1
B (ST1)	4	16	6	6	12	10	2	12	14	2
MG (ST2)	3	9	4	4	7	6	2	7	8	2
SFF (ST3)	6	30	10	10	22	18	2	22	26	2

LT = letter text, **NT** = Numbers text, **S** = space, **H** = hyper cube,

B (ST1) = Boundary / External features sathapatya text, **MG (ST2)** = Middle geometry / middle feature sathapatya text and **SFF (ST3)** = sum of four folds of hyper cube /external features sathapatya text

Ten folds of TCV value of formulations of Ganita sutra-1 and upsutra-1

Formulation (एकाधिकेन)

SN	Letter	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
		W	S	L	T	TT	FF	F	H	R	SR
001	ए	1	1	1	6	48	26	10	22	40	86
002	क्	1	1	1	4		24	12	14	30	64

003	आ	1	1	1	2	0	22	16	6	20	42
004	ध्	1	1	1	7		27	14	26	45	97
005	इ	1	1	1	2	0	22	16	6	20	42
006	क्	1	1	1	4		24	12	14	30	64
007	ए	1	1	1	6	192	26	10	22	40	86
008	न्	1	1	1	8		28	11	30	50	108
009	अ	1	1	1	1	24	21	8	2	15	31

C1 = (W) Word as a entity value 1, **C2 = (S)** syllable (s) value 1, **C3 = (L)** letter(s) value 1, **C4 = (T)** TCV, **C5 = (TT)** Transcendence through dimension and dimension of dimension, **C6 = (FF)** pronouncing frequency, **C7 = (F)** Formulation TCV, **C8 = (H)** Sathapatya (geometric format) / hyper cube 4 folds summation value, **C9 = (R)** Transcendence range value of the order parallel with the TCV value, **C10 = (SR)** Synthesis value of pair of transcendence ranges of order of TCV value

Formulation (पूर्वण)

SN	Letter	C1 W	C2 S	C3 L	C4 T	C5 TT	C6 FF	C7 F	C8 H	C9 R	C10 SR
010	प्	1	1	1	5		25	15	18	35	75
011	□	1	1	1	6	-5	26	10	22	40	86
012	◌	1	1	1	3		16	8	10	25	53
013	व्	1	1	1	7		27	14	26	45	97

014	ए	1	1	1	6	480	26	10	22	40	86
015	प्	1	1	1	7		27	14	26	45	97
016	अ	1	1	1	1	21	21	8	2	15	31

Ganita Upsutra-1 TCV folds

Formulation (आनुरूप्येण)

S N	Letter	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
1	आ	1	1	1	2	0	22	16	6	20	42
2	न्	1	1	1	8		28	11	30	50	108
3	उ	1	1	1	3	-24	23	8	10	25	53
4	र	1	1	1	3		16	8	10	25	53
5	□	1	1	1	6	144	26	10	22	40	86
6	प्	1	1	1	5		25	15	18	35	75
7	य्	1	1	1	1		21	8	2	15	31
8	ए	1	1	1	6	288	26	10	22	40	86
9	प्	1	1	1	7		27	14	26	45	97
10	अ	1	1	1	1	21	21	8	2	15	31

Parallel formats of Vedic Ganita sutras and upsutras intelligence field created by mind

4

Vishnu Puran

Introduction

Vishnu Puran is reservoir of format features and values of Vishnu and Vishnu Dham. It is a scripture of six ansh (अंश) / parts. The scripture is organized as 126 chapters. Value 126 accepts organization as $126 = 6 \times 21 = 6 \times (1+2+3+4+5+6)$. The organization $(1+2+3+4+5+6)$ is parallel with the sathapatya format of (1-space, 2-space, 3-space, 4-space, 5-space, 6-space) / hyper cube 1, 2, 3, 4, 5, 6 / sathapatya measuring rod presided by lord Vishnu and its measure being presided by lord Brahma.

Chapters organization

Chapters of six ansh / parts are: (22, 16, 18, 24, 38, 8)

Ansh	Chapters	Sathapatya	Total chapters
1	22	Hyper cube 6 (4, 5, 6, 7)	22
2	16	Dimensional frame of 4-space (2^4)	38
3	18	Hyper cube 5 (3, 4, 5, 6)	56
4	24	Dimensional frame of 6-space (4x4)	80
5	38	Hyper cube 10 (8, 9, 10, 11)	118
6	8	Akash	126

		TCV = 8	
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Chapter wise shalokas

First ansh

Chapter	Shalokas	Sathapatya	Total shalokas
1	31	31 components of cube	31
2	70	Domain split (1, 2, 5, 12, 29, 70)	101
3	28	4x7	129
4	52	13x4 = 2+50, Om 50 letters of devnagri and parnavaha	181
5	66	66 = 33+33 = (18+15)+(18+15)	247
6	42	42 = 21+21 = (6+5+4+3+2) + (2) +(2+3+4+5+6)	289
7	48	2x4x6 = 24+24 = 4x6+4x6, 6x8 grid	337
8	35	5x7 grid	372
9	149	7x7+10x10	521
10	21	Numbers 1-9 leads to factors 1x13, it further leads to 1-21	542
11	57	3x19	599
12	103	31+72	702
13	195	5x19+10x10	897
14	49	7x7	946
15	156	12x13	1102
16	16	2 ⁴	1118
17	91	7x13	1209
18	46	2x23	1255
19	86	2x43, (10+9+8+7+6) + (6) + (6+7+8+9+10)	1341

20	39	3×13	1380
21	41	(19, 20, 21, 22); $41 = 19 + 22$	1421
22	90	5×18 ; (16, 17, 18, 19, 20)	1511

Second ansh

Chapter	Shalokas	Sathapatya	Total shalokas
1	43	$15 + 13 + 15$	43
2	56	Numbers 1-28, factors 1-56	99
3	28	4×7	127
4	97	$(11 + 10 + 9 + 8 + 7) + (7)$ $+ (7 + 8 + 9 + 10 + 11)$	224
5	27	$3 \times 3 \times 3$	251
6	53	$18 + 15$	304
7	43	$15 + 13 + 15$	347
8	122	$61 + 61 = (30 + 31)$ $+ (30 + 31)$	469
9	24	4×6	493
10	23	$(3 + 5) + (3 \times 5)$	516
11	26	$5 + 6 + 7 + 8$	542
12	47	$(11 + 11\frac{1}{2} + 12 + 12\frac{1}{2})$	589
13	104	$(4 \times 26), (8 \times 13)$	693
14	33	$18 + 15$	726
15	36	$11 + 9 + 9 + 7$	762
16	25	Numbers 1 to 15, factors 1 to 25	787

Third Ansh

Chapter	Shalokas	Sathapatya	Total shalokas
1	46	(46, -46), (46, 64) reflection pairs	46
2	62	31+31; (14, 15, 16, 17)	108
3	31	(5+4+3+2+1)+(1) +(1+2+3+4+5)	139
4	26	(5+6+7+8)	165
5	30	6+7+8+9	195
6	33	18+15	228
7	39	3x13	267
8	41	(19, 20, 21, 22); (41 = 19+22)	308
9	33	18+15	341
10	26	(5+6+7+8)	367
11	127	(1, 2, 4, 8, 16, 32, 64, 127, 254, 508, 1016, 2032, 4064, 8128)	494
12	45	1+2+3+4+5+6+7+8+9	539
13	41	(19, 20, 21, 22); (41 = 19+22)	580
14	39	3x13	619
15	56	Numbers 1 to 28, factors 1 to 56	675
16	20	(4+3+2+1+0)+(0) +(0+1+2+3+4)	695
17	45	1+2+3+4+5+6+7+8+9	740
18	105	5x21 = 5x(1+2+3+4+5+6)	845

Fourth ansh

Chapter	Shalokas	Sathapatya	Total shalokas
1	96	$2 \times 48 = 2 \times (2 \times 4 \times 6)$	96
2	133	7×19	229
3	49	7×7	278
4	113	113	391
5	34	$7+8+9+10$	425
6	94	22, 23, 24, 25	519
7	39	3×13	558
8	29	$2 \times 14 + 1$	587
9	28	4×7	615
10	32	2^5	647
11	30	$6+7+8+9$	677
12	45	$1+2+3+4+5+6+7+8+9$	722
13	162	$81+81 = 3^4 + 3^4$	884
14	53	$(7+6+5+4+3+)+(3)$ $+(3+4+5+6+7)$	937
15	50	5×10	987
16	6	2×3	993
17	5	$2+3$	998
18	30	$6+7+8+9$	1028
19	85	5×17	1113
20	53	$(7+6+5+4+3+)+(3)$ $+(3+4+5+6+7)$	1166
21	18	$3+4+5+6$	1184
22	13	$4+5+4$	1197
23	13	$4+5+4$	1210
24	151	151	1361

Fifth ansh

Chapter	Shalokas	Sathapatya	Total shalokas
1	87	3×29	87

2	21	3×7	108
3	29	$2 \times 14 + 1$	137
4	17	$2 \times 8 + 1$	154
5	23	$(3+5) + (3 \times 5)$	177
6	51	3×17	228
7	83	83	311
8	13	$2 \times 6 + 1$	324
9	38	$2 \times 19 = 8+9+10+11$	362
10	49	7×7	411
11	25	5×5	436
12	26	$5+6+7+8$	462
13	62	(14, 15, 16, 17)	524
14	14	(3, 4, 5, 6)	538
15	24	(4×6)	562
16	28	4×7	590
17	33	$18+15$	623
18	58	$8+9+10+11$	681
19	29	$2 \times 14 + 1$	710
20	105	$5 \times (1+2+3+4+5+6)$	815
21	32	2^5	847
22	18	$3+4+5+6$	865
23	47	(11, $11 \frac{1}{2}$, 12, $12 \frac{1}{2}$)	912
24	21	$1+2+3+4+5+6$	933
25	19	$2 \times 9 + 1$	952
26	12	2×6	964
27	32	2^5	996
28	28	4×7	1024
29	35	5×7	1059
30	80	8×10	1139
31	20	$(4+3+2+1+0) + (0)$ $+ (0+1+2+3+4)$	1159
32	30	$6+7+8+9$	1189
33	53	$(7+6+5+4+3) + (3)$ $+ (3+4+5+6+7)$	1242
34	44	$22+22$	1286
35	38	$19+19$	1324
36	24	4×6	1348
37	75	$(9+8+7+6+5) + (5)$	1423

		$+(5+6+7+8+9)$	
38	94	(22, 23, 24, 25)	1517

Sixth ansh

Chapter	Shalokas	Sathapatya	Total shalokas
1	60	5x12	60
2	40	4x10	100
3	41	(19, 20, 21, 22); (41 = 19+22)	141
4	50	5x10	191
5	87	3x29	278
6	50	5x10	328
7	106	53+53	434
8	64	4x4x4	498

Consolidated Ansh chapter wise table

Ansh	Chapter	Shalokas	Total Chapters	Total Shalokas
1	22	1511	22	1511
2	16	787	38	2298
3	18	845	56	3143
4	24	1361	80	4504
5	38	1517	118	6021
6	8	498	126	6519

Numbers values and sathapatya format

S No	Number	Sathapatya
1	25 = TCV (विष्णु)	Grid 4x6, first triple digit number '100' of five place value system is of value 25 of ten place value system.
2	21 = TCV (पुराण)	21 = 1+2+3+4+5+6, parallel with sathapatya measuring rod of hyper cubes 1 to 6 of 1 to 6-space body
3	13 = TCV (अंश)	13 = 2x6+1 parallel with 13 geometries of 6-space. It is further parallel with format of 13 edged cube.
4	22 =	22 = 4+5+6+7 parallel with four folds of hyper cube 6.
5	16	16 = 2 ⁴ parallel with dimensional frame of quadruple spatial dimension of 4-space.
6	18	18 = 3+4+5+6 parallel with four folds of hyper cube 5
7	24	24 = 4x6 parallel with six creative dimensions of 6-space constituting dimensional frame of 6-space.
8	38	38 = 8+9+10+11 parallel with four folds of hyper cube 10. Also 38 = 19+19, parallel with a set up of a pair of southern hemisphere
9	8	8 = TCV (आकाश). Further 8 = (4, 2, 2, 0) parallel with domain split spectrum of 4-space domain. It is 4-space content feature.
10	126	126 = 6x(1+2+3+4+5+6) parallel with six sathapatya ayam (dimension). Further 126 = 22+16+18+24+38+8, parallel with chapters of six ansh parts of Vishnu puran. Further 126 = 125+1. The formats of 5x5 grid, the structural components of cube as synthesis of eight sub cubes, and (पृथिवि, आप, अग्नि, वायु, आकाश, सूर्य, ध्रुव, विष्णु) and the age of 'Krishan' the working rule, one more than before as value 125 is 126 = 6 ³ of 6x6 grid of values 1 2 3 4 5 6 2 3 4 5 6 7 3 4 5 6 7 8 4 5 6 7 8 9 5 6 7 8 9 10 6 7 8 9 10 11

Table of chapter wise increasing number of shalokas

File-1 Table-1 of Ansh-1

Text order		Ascending order	
Chapter	Shalokas	Chapter	Shalokas
1	31	16	16
2	70	10	21
3	28	3	28
4	52	1	31
5	66	8	35
6	42	20	39
7	48	21	41
8	35	6	42
9	149	18	46
10	21	7	48
11	57	14	49
12	103	4	52
13	195	11	57
14	49	5	66
15	156	2	70
16	16	19	86
17	91	22	90
18	46	17	91
19	86	12	103
20	39	9	149
21	41	15	156
22	90	13	195

File-1 Table-2 of Ansh-2

Text order		Ascending order	
Chapter	Shalokas	Chapter	Shalokas
1	43	10	23
2	56	9	24
3	28	16	25
4	97	11	26
5	27	5	27
6	53	3	28
7	43	14	33
8	122	15	36
9	24	1	43
10	23	7	43
11	26	12	47
12	47	6	53
13	104	2	56
14	33	4	97
15	36	13	104
16	25	8	122

File-1 Table-3 of Ansh-3

Text order		Ascending order	
Chapter	Shalokas	Chapter	Shalokas
1	46	16	20
2	62	4	26
3	31	10	26
4	26	5	30
5	30	3	31
6	33	6	33
7	39	9	33
8	41	7	39
9	33	14	39
10	26	8	41
11	127	13	41
12	45	12	45
13	41	17	45
14	39	1	46
15	56	15	56
16	20	2	62
17	45	18	105
18	105	11	127

File-1 Table-4 of Ansh-4

Text order		Ascending order	
Chapter	Shalokas	Chapter	Shalokas
1	96	17	5
2	133	16	6
3	49	22	13
4	113	23	13
5	34	21	18
6	94	9	28
7	39	8	29
8	29	11	30
9	28	18	30
10	32	10	32
11	30	5	34
12	45	7	39
13	162	12	45
14	53	3	49
15	50	15	50
16	6	14	53
17	5	20	53
18	30	19	85
19	85	6	94
20	53	1	96
21	18	4	113
22	13	2	133
23	13	24	151
24	151	13	162

File-1 Table-5 of Ansh-5

Text order		Ascending order	
Chapter	Shalokas	Chapter	Shalokas
1	87	26	12
2	21	8	13
3	29	14	14
4	17	4	17
5	23	22	18
6	51	25	19
7	83	31	20
8	13	2	21
9	38	24	21
10	49	5	23
11	25	15	24
12	26	36	24
13	62	11	25
14	14	12	26
15	24	16	28
16	28	28	28
17	33	3	29
18	58	19	29
19	29	32	30
20	105	21	32
21	32	27	32
22	18	17	33
23	47	29	35
24	21	9	38
25	19	35	38
26	12	34	44
27	32	23	47

28	28		10	49
29	35		6	51
30	80		33	53
31	20		18	58
32	30		13	62
33	53		37	75
34	44		30	80
35	38		7	83
36	24		1	87
37	75		38	94
38	94		20	105

File-1 Table-6 of Ansh-6

Text order		Ascending order	
Chapter	Shalokas	Chapter	Shalokas
1	60	2	40
2	40	3	41
3	41	4	50
4	50	6	50
5	87	1	60
6	50	8	64
7	106	5	87
8	64	7	106

Table-7B
**Consolidated Table in Ascending order
of Shalokas of Chapters of Vishnu Puran**

S.No	Shalokas	S.No	Shalokas	S.No	Shalokas
Consolidated table in ascending order		24	35	49	70
		25	36	50	75
1	5	26	38	51	80
2	6	27	39	52	83
3	12	28	40	53	85
4	13	29	41	54	86
5	14	30	42	55	87
6	16	31	43	56	90
7	17	32	44	57	91
8	18	33	45	58	94
9	19	34	46	59	96
10	20	35	47	60	97
11	21	36	48	61	103
12	23	37	49	62	104
13	24	38	50	63	105
14	25	39	51	64	106
15	26	40	52	65	113
16	27	41	53	66	122
17	28	42	56	67	127
18	29	43	57	68	133
19	30	44	58	69	149
20	31	45	60	70	151
21	32	46	62	71	156
22	33	47	64	72	162
23	34	48	66	73	195

Table-7C
Consolidated Table in descending order
of Shalokas of Chapters of Vishnu Puran

S.No	Shalokas	S.No	Shalokas	S.No	Shalokas
Consolidated table in descending order		24	75	49	36
1	195	25	70	50	35
2	162	26	66	51	34
3	156	27	64	52	33
4	151	28	62	53	32
5	149	29	60	54	31
6	133	30	58	55	30
7	127	31	57	56	29
8	122	32	56	57	28
9	113	33	53	58	27
10	106	34	52	59	26
11	105	35	51	60	25
12	104	36	50	61	24
13	103	37	49	62	23
14	97	38	48	63	21
15	96	39	47	64	20
16	94	40	46	65	19
17	91	41	45	66	18
18	90	42	44	67	17
19	87	43	43	68	16
20	86	44	42	69	14
21	85	45	41	70	13
22	83	46	40	71	12
23	80	47	39	72	6
		48	38	73	5

Table-7D
Consolidated Table of Shalokas
of Chapters of Vishnu Puran

S. No	Sha.	Sha.	Total
1	5	195	200
2	6	162	168
3	12	156	168
4	13	151	164
5	14	149	163
6	16	133	149
7	17	127	144
8	18	122	140
9	19	113	132
10	20	106	126
11	21	105	126
12	23	104	127
13	24	103	127
14	25	97	122
15	26	96	122
16	27	94	121
17	28	91	119
18	29	90	119
19	30	87	117
20	31	86	117
21	32	85	117
22	33	83	116
23	34	80	114
24	35	75	110
25	36	70	106

26	38	66	104
27	39	64	103
28	40	62	102
29	41	60	101
30	42	58	100
31	43	57	100
32	44	56	100
33	45	53	98
34	46	52	98
35	47	51	98
36	48	50	98
37	49	49	98
38	50	48	98
39	51	47	98
40	52	46	98
41	53	45	98
42	56	44	100
43	57	43	100
44	58	42	100
45	60	41	101
46	62	40	102
47	64	39	103
48	66	38	104
49	70	36	106
50	75	35	110
51	80	34	114
52	83	33	116

53	85	32	117
54	86	31	117
55	87	30	117
56	90	29	119
57	91	28	119
58	94	27	121
59	96	26	122
60	97	25	122
61	103	24	127
62	104	23	127
63	105	21	126
64	106	20	126
65	113	19	132
66	122	18	140
67	127	17	144
68	133	16	149
69	149	14	163
70	151	13	164
71	156	12	168
72	162	6	168
73	195	5	200

