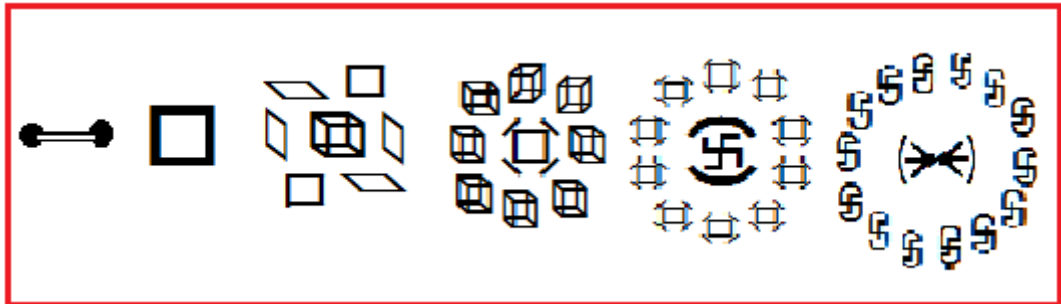


VEDIC MATHEMATICS

&

MODERN MATHEMATICS

SATHAPATYA MEASURING ROD



(HYPER CUBES 1 TO 6)

FIRST WEEK CHASE ASPECT

(1-space body / Interval / Hyper cube 1)

(1-10-2015 to 7-10-2015)

First Week Day 04

- | | | |
|-------------------------------------|-----|--|
| I. Sathapatya : | (4) | First Vowel and Second Vowel combine and reach sixth vowel |
| II. Srimad Bhagwad Geeta : | (3) | Pushpikas / colophons of 18 chapters |
| III. Devnagri Alphabet : | (3) | Viserg Sandhi (विसर्ग सन्धि) |
| IV. Shiv Sahastranam Stotram | (1) | Shiv Sahastranam Stotram |

I

First Week Day 04 Sathapatya :

(4)

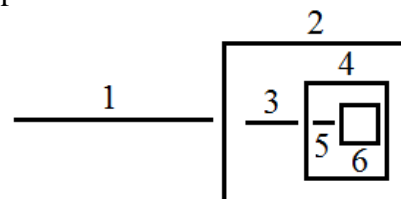
First Vowel and Second Vowel combine and reach sixth vowel

(अ+इ=ए)

I
Interval and Square

being the sequential order of repeated steps

1. Combination of Interval and Square leads us to the situation of line and square with square accommodating interval and square and square again accommodating interval and square and thereby there



2. Let us have a pause here and have a fresh visit to the above sequential set up.
3. This six steps long set up deserve to be comprehended well.
4. Let us further have a pause here and take note that the above six steps long set up, is a set up of three constituents of line and three constituents of surface.
5. Let us further have a pause here and take note that these pair of set ups of three constituents each deserve to be chased as set ups of three linear axes and three spatial axes.
6. Let us further have a pause here and take note that three dimensional frame at center of the cube splits it into six half linear dimensions passing through the centers of six surface plates.
7. Further the set up of three dimensional frame of three spatial dimensions splits cube into eight sub cubes parallel to split of a three space into 8 octants
8. One may further have a pause here and take note that the domain boundary ratio for cube and sphere accepts common formulations $A^3: 6 B^2$, with the different that in case of cube boundary is of six components while in case of sphere the boundary is integrated whole while its volume accepts split into six parts.
9. One shall further have a pause here and take note that line and surface and the roles of linear and spatial dimensions and split of boundary and domain in six parts that way focuses potential upon the simultaneous availability of 1-Space and 2-Space set ups and parallel to there being set ups of artifices 1 and 2 and the combined reach uptill the artifices as formats of first and second vowel leading to the reach

II

Simultaneous availability of formats (1, 1 x 1)

10. This simultaneous availability of formats 1, 1 x 1 is parallel to the formats of features ($1^1, 1^2$)
11. Parallel to it is the simultaneous availability of format of line and surface.
12. The format of 1^1 leads to sequential values set up (1, 1 + 1, 1 + 1 + 1, ---)
13. The format 1^2 leads to sequential values set up 1 x 1, 1 x 2, 1 x 3, --
14. The sequential values (1, 2, 3, 4, ---) as sequential summation leads to 1, 3, 6, 10, ---
15. This values sequence (1, 3, 6, 10, ---) is parallel to the synthesis values of single, double, triple, quadruple linear dimensions and so on.
16. Single, double, triple, quadruple spatial dimensions and so on lead to values sequence (2, 4, 6, 8, ---)
17. One may have a pause here and take note that the synthesis values of triple linear dimensions is six which is equal to the synthesis value of triple spatial dimensions.
18. One may have a pause here and have a fresh look at the above features leading to the meeting point for linear and spatial dimensions triple in number at value 6

III

NVF (Square) and NVF (Cube) = NVF (Mathematics)

19. It would be blissful to comprehend the values of the NVF equation NVF (Mathematics) = NVF (Square) + NVF (Cube).
20. It brings us face to face with the Mathematics of consecutive spaces bodies.

21. One may have a pause here and take note that $NVF(\text{Mathematics}) = 112 = 56 + 56$
22. It would be a blissful to take note that $NVF(\text{Mathematics}) = NVF(\text{Light}) + NVF(\text{Light})$.
23. Further It also would be relevant to note that $NVF(\text{Mathematics}) = NVF(\text{Domain}) + NVF(\text{Domain})$.
24. Still further it also would be very blissful to take note that $NVF(\text{three}) + NVF(\text{three})$.
25. One shall have a pause here and permit the transcending mind to glimpse the format and features of (Mathematics) being worked out as a pair of domains.
31. One may have a pause here and take note that the summation value of first pair of folds (-1, 0) is '-1'.
32. One shall permit the transcending mind to continuously remain in prolonged sitting of deep trans and to glimpse the sequential reach and super imposition of first fold upon second fold, first two folds upon third fold and of all the first three folds upon the fourth fold.
33. This will help us comprehend and to appreciate as to how the reach of dimension fold (-1 space) uptill boundary fold (0 space) and super imposition of the dimension fold upon the boundary fold, as such shall be making the initial value of boundary fold alone (-1) and that of the summation value of pair of first folds as well to be (-1).

IV

Square as Hyper cube- 2

26. Square is the representative regular body of 2-Space. square is the set up of four fold manifestation layers (0, 1, 2, 3) of hyper cube 2 with 0 space content manifesting dimensional order 1-space content manifesting boundary, 2-Space content manifesting domain and three space content manifest origin.
27. One may have a pause here and take note that the summation value of quadruple artifices (0, 1, 2, 3) is $0 + 1 + 2 + 3 = 6$
34. This as such shall be making it as to how in case of hyper cube-1, the dimension fold individually as well as the super imposition of dimension fold and boundary fold, in this case, being of same value (-1), it shall be requiring due comprehension and imbibing of these values to have proper insight and enlightenment of the values and virtues of hyper cube-1.
35. Further the super imposition of first three folds (dimension fold, boundary fold and domain fold) in case of hyper cube-1, shall be leading to the value '0', which is also the value of boundary fold itself.

V

2-Space as origin

28. Vedic Mathematics approaches 2-Space in its different roles, one amongst them is as origin fold of hyper cube-1.
29. Hyper cube-1 is a four fold manifestation layer (-1, 0, 1, 2) with summation value for quadruple artifices (-1, 0, 1, 2) being '2'.
30. One may have a pause here and take note that the summation value of triple artifices (-1, 0, 1) is '0'.
36. That being so here as well proper comprehension and by full appreciation and imbibing of these features one may be acquiring further insight for the enlightened vision about the set up of hyper cube-1.
37. One shall further permit the transcending mind to continuously remain in prolonged sitting of deep trans to thoroughly comprehend and fully appreciate the features of hyper cube-1 by chasing 2-

Space as origin fold as well as the super imposition of dimension, boundary and domain fold upon the origin fold in case of set of hyper cube-1 as the value of all the four folds together, as well as of origin fold alone comes to be same being '2'.

- 38. One may further have a pause here and take note that the 2-Space accepts 5 geometries range and parallel to it there are five versions of square.
- 39. It would be a blissful exercise to have a fresh look at 5 x 5 sequential organization of 5 rows and 5 columns leading to 4 x 4 = 16 grid zones.
- 40. The reach for each of the grid zones in sequential formats for the entire boundary reach connected all the four corner of the square will help appreciate as to how while remaining at the boundary, the insight about the inner structures as well can be had.

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

- 41. If one starts from (1) as the first corner, (5) as the second corner, (9) as the third corner and (5) as the fourth corner, one will see that there is sequential increase from first corner to second corner, further there is increase from second corner to third corner. However from third corner to fourth corner and from first corner to fourth corner there is sequential decrease.
- 42. A proceeding from first corner to fourth corner and then from fourth corner to third corner, there is going to be increase, while ahead from third corner to second corner and second corner to first corner there is a sequential decrease.
- 43. In case one marks sequential increase as (+) and decrease as (-), then at the first

corner there is simultaneous increase along row as well as along column accepting representation (+, +). The second corner as such will accept (-, +). The expression from third and fourth corner will be (-, -) and (+, -).

- 44. It would be blissful to see that the diagonal joining first and third corner as values array (1, 3, 5, 7, 9) is a sequential reach from dimension to domain format. however the values array along diagonal connecting second and fourth corner are equal values array.

5 5 5 5 5

- 45. It would be a blissful exercise to permit the transcending mind to imbibe the values of above features to glimpse the format and features of hyper cube-1.

*

II Organization format of Srimad Bhagwad Geeta

Srimad Bhagwad Gita Study - Zone										
a	a ²	a ³	a ⁴	a ⁵	a ⁶	a ⁵	a ²	a ³	a ⁴	—
2	4a	6a ²	8a ³	10a ⁴	12a ⁵	10a ⁴	8a	6a ²	4a ²	—
2x1 =2	4x2 =8	6x3 =18	8x4 =32	10x5=50 50x7=350	12x5=60 50x7=350	10x5=50	8x4 =32	6x3 =18	4x2 =8	2x1 =2
Orbitals:				350+350=700						
2	6	10	14	18=5+6+7						

First Week Day 04: Srimad Bhagwad Geeta

(3)

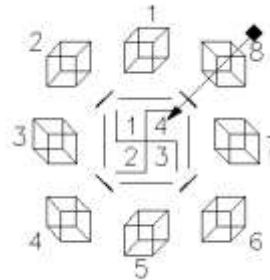
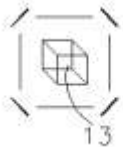
Pushpikas / colophons of 18 chapters

The organization format of Srimad Bhagwad Geeta as 18 chapters is for organization of 18 Disciplines of Yoga. The values of Yoga flow as Divya Ganga Parvah along the format of sole syllable Om (ॐ). The virtues of these values, as essence of values, stand fulfilled in the Pushpika of the chapter which is of the format of hyper cube- 4 with transcendental origin. Here below are being chased the organization features of the Pushpikas / colophons of 18 chapters of Srimad Bhagwad Geeta.

1. Pusupika of chapter – 1

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे ऽर्जुनविषादयोगो नाम प्रथमोऽध्यायः ॥११॥

Pushpika		
Chapters	Pados	Aksharas
1	13	48

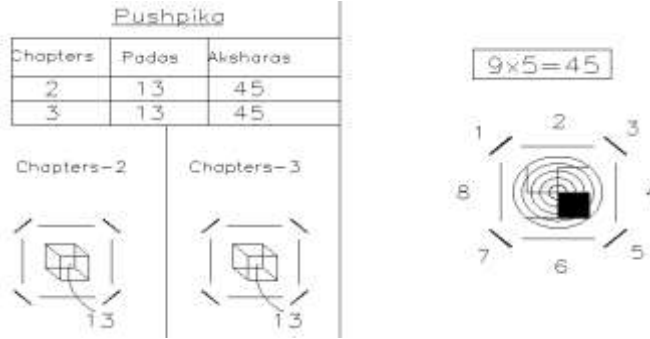


2. Pusupika of chapter – 2

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे सांख्यायोगो नाम द्वितीयोऽध्यायः ॥२॥

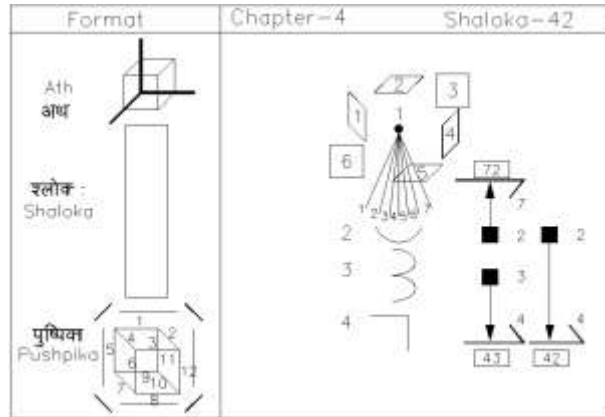
3. Pusupika of chapter – 3

ॐ तत्सदिति श्रीमद्भगवद्गीतासूप निषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे **कर्मयोगो** नाम **तृतीयोऽध्यायः** ॥३॥



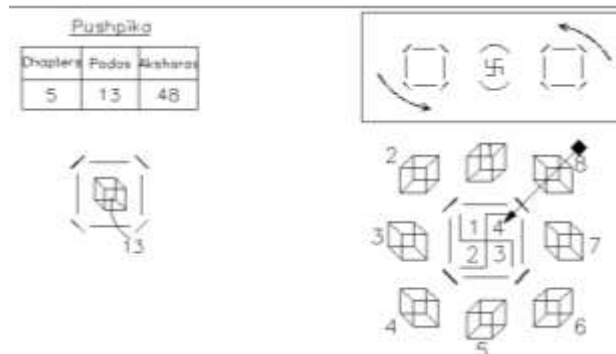
4. Pusupika of chapter – 4

ॐ तत्सदिति इति श्रीमत्परमहंसपरिव्राजकाचार्यगोविन्दभगवत्पूज्यपादशिष्यश्रीमच्छङ्कर भगवतः कृतौ श्रीभगवद्गीताभाष्ये **ज्ञानकर्मसत्र्यास्योगो** नाम **चतुर्थोऽध्यायः** ॥४॥



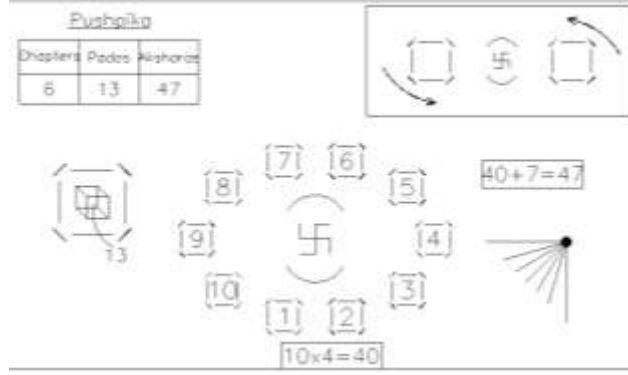
5. Pusupika of chapter – 5

ॐ तत्सदिति इति श्रीमत्परमहंसपरिव्राजकार्यायगोविन्दभगवत्पूज्यपादशिष्यश्रीमच्छंकर-भगवतः कृतौ श्रीमद्भगवद्गीताभाष्ये **कर्मसत्र्यासयोगो** नाम **पञ्चमोऽध्यायः** ॥५॥



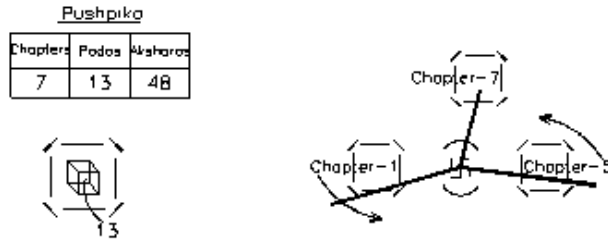
6. Pusupika of chapter – 6

ॐ तत्सदिति इति श्रीमत्परमहंसपरिव्राजकाचार्यगोविन्दभगवत्पूज्यपादशिष्यश्रीमच्छंकरभगवतः कृतौ श्रीभगवद्गीताभाष्ये आत्मसंयमयोगो नाम षष्ठोऽध्यायः ॥६॥



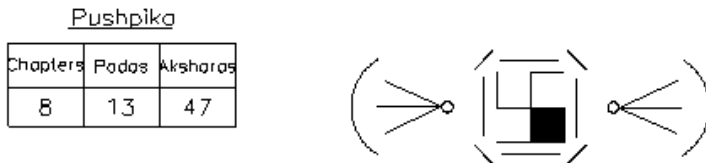
7. Pusupika of chapter – 7

ॐ तत्सदिति इति श्रीमत्परमहंसपरिव्राजकाचार्यगोविन्दभगवत्पूज्यपादशिष्यश्रीमच्छंकरभगवतः कृतौ श्रीभगवद्गीताभाष्ये ज्ञानविज्ञानयोगो नाम सप्तमोऽध्यायः ॥७॥



8. Pusupika of chapter – 8

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे अक्षरब्रह्मयोगो नामाष्टमोऽध्यायः ॥८॥



9. Pusupika of chapter – 9

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे राजविद्याराजगुह्ययोगो नाम नवमोऽध्यायः ॥९॥

Pushpika

Chapters	Padas	Aksharas
8	13	47

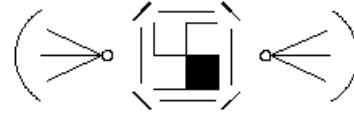
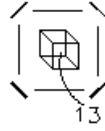


10. Pusupika of chapter – 10

ॐ तत्सदिति श्रीमद्भगवद्गीता-सूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे विभूति-योगो नाम दशमोऽध्यायः ॥१०॥

Pushpika

Chapters	Padas	Aksharas
10	13	46



11. Pusupika of chapter – 11

ॐ तत्सदिति इति श्रीमत्परमहंसपरिव्राजकाचार्यगोविन्दभगवत्पूज्यपादशिष्यश्रीमच्छंकरभगवतःकृतौ श्रीभगवद्गीताभाष्ये विश्वरूपदर्शन नामैकादशोऽध्यायः ॥११॥

Pushpika

Chapters	Padas	Aksharas
11	13	50

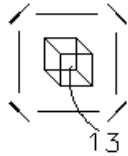


12. Pusupika of chapter – 12

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुन-संवादे भक्तियोगो नाम द्वादशोऽध्यायः ॥१२॥

Pushpika

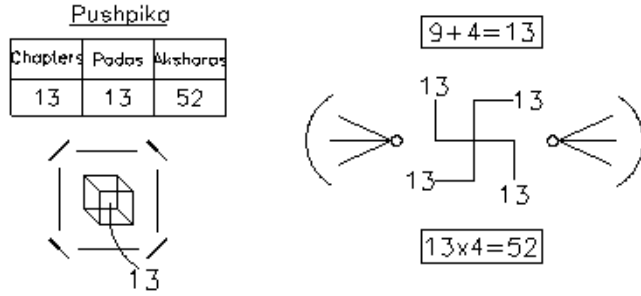
Chapters	Padas	Aksharas
12	13	45



$$9 \times 5 = 45$$

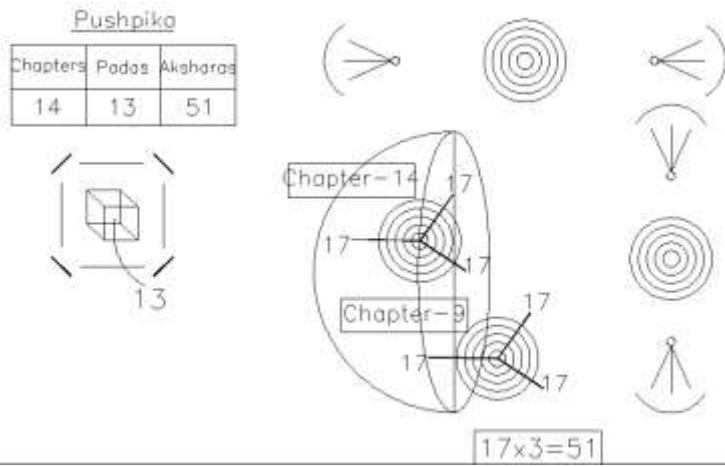
13. Pusupika of chapter – 13

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुन-संवादे क्षेत्रक्षेत्रज्ञयोगो नाम त्रयोदशोऽध्यायः ॥१३॥



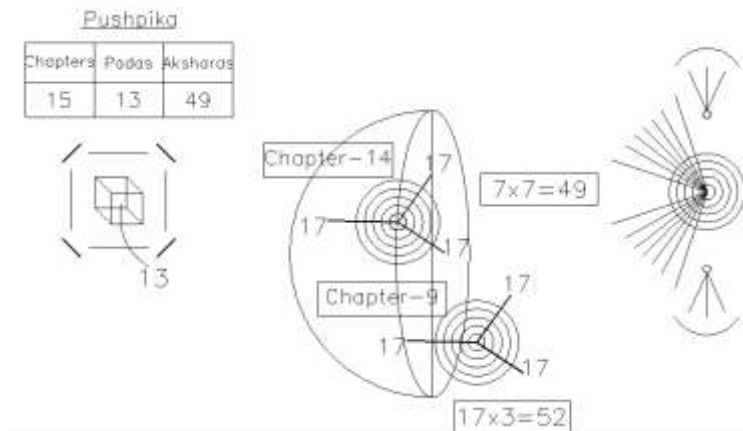
14. Pusupika of chapter – 14

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे गुणत्रयविभागयोगो नाम चतुर्दशोऽध्यायः ॥२४॥



15. Pusupika of chapter – 15

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे पुरुषोत्तमयोगो नाम पञ्चदशोऽध्यायः ॥१५॥

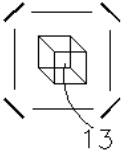
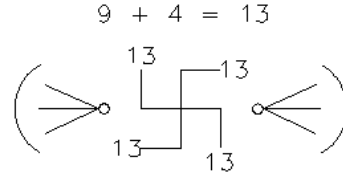


16. Pusupika of chapter – 16

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे
दैवासुरसंपद्विभागयोगो नाम षोडशोऽध्यायः ॥१६॥

Pushpika

Chapters	Padas	Aksharas
16	13	52


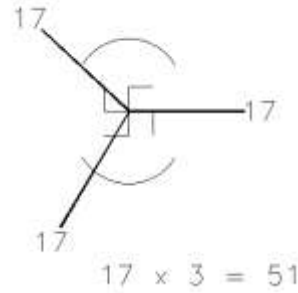



17. Pusupika of chapter – 17

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे
श्रद्धात्रयविभागयोगो नाम सप्तदशोऽध्यायः ॥१७॥

Pushpika

Chapters	Padas	Aksharas
17	13	51

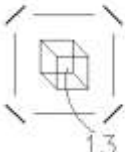
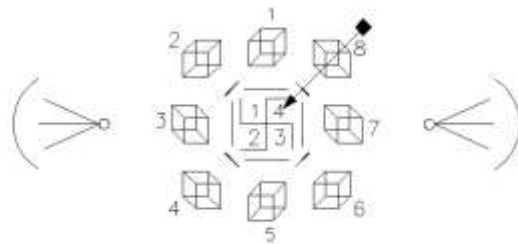



18. Pusupika of chapter – 18

ॐ तत्सदिति श्रीमद्भगवद्गीतासूपनिषत्सु ब्रह्मविद्यायां योगशास्त्रे श्रीकृष्णार्जुनसंवादे
मोक्षसंन्यासयोगो नामाष्टादशोऽध्यायः ॥१८॥

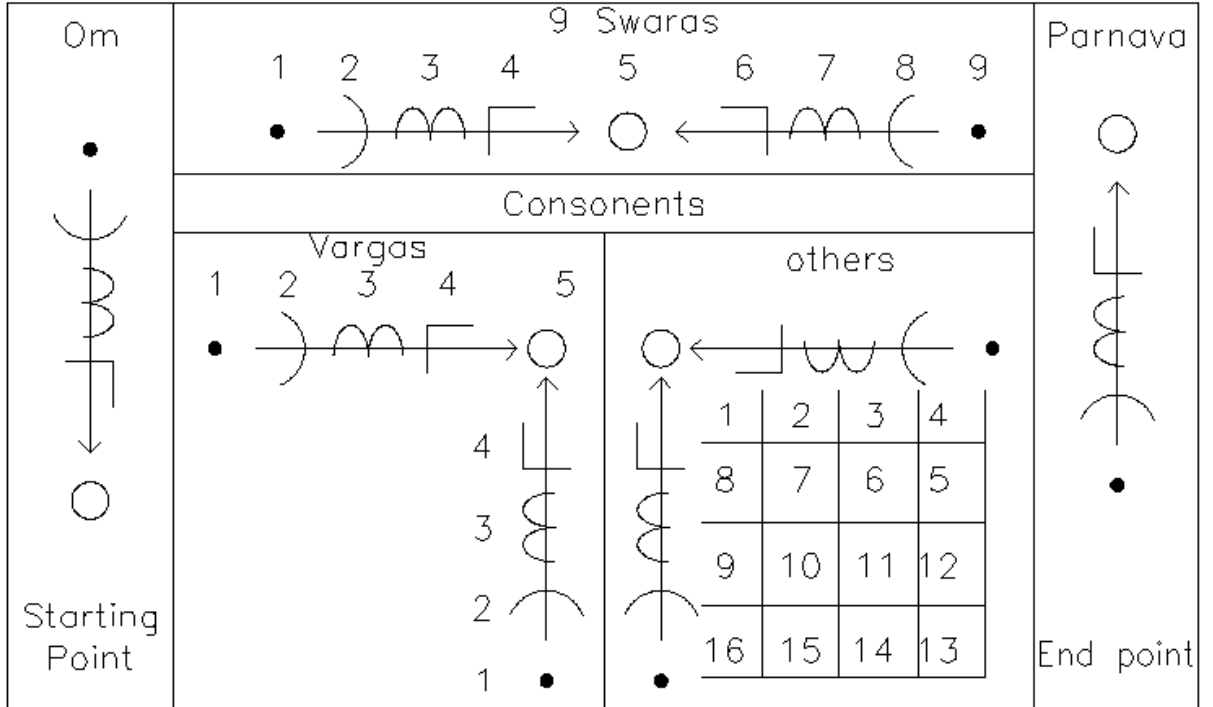
Pushpika

Chapters	Padas	Aksharas
18	13	48

III

Format, Values and Features of DEVNAGRI ALPHABET



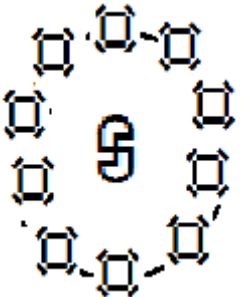
First Week Day 04 : Devnagri Alphabet

(3)

Viserg Sandhi (विसर्ग सन्धि)

Vowel	Viserga	अ	आ	अन्य स्वर	३, ४, ५ य, र, ल, व, ह	१, २ श, स, ष
अ	:	उ	X	X	उ	स्
आ	:	X	X	X	X	स्
इ	:			र	र	स्
उ	:			र	र	स्
ऋ	:			र	र	स्
ॠ	:			र	र	स्
ए	:			र	र	स्
ओ	:			र	र	स्
ऐ	:			र	र	स्
औ	:			र	र	स्

IV
SHIV SAHASTRANAM STOTRAM
 (One thousand transcendental formulations)

	5 x 5 format <table style="margin: auto;"> <tr><td style="color: red;">1</td><td style="color: red;">2</td><td style="color: red;">3</td><td style="color: red;">4</td><td style="color: red;">5</td></tr> <tr><td style="color: blue;">2</td><td style="color: blue;">3</td><td style="color: blue;">4</td><td style="color: blue;">5</td><td style="color: blue;">6</td></tr> <tr><td style="color: red;">3</td><td style="color: red;">4</td><td style="color: red;">5</td><td style="color: red;">6</td><td style="color: red;">7</td></tr> <tr><td style="color: green;">4</td><td style="color: green;">5</td><td style="color: green;">6</td><td style="color: green;">7</td><td style="color: green;">8</td></tr> <tr><td style="color: blue;">5</td><td style="color: blue;">6</td><td style="color: blue;">7</td><td style="color: blue;">8</td><td style="color: blue;">9</td></tr> </table>	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
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																						

I
Shiv Shastranam Stotram

1. Shiv Sahastranam Stotram is the scripture of one thousand transcendental designations / names of Lord Shiv.
2. Shiv Sahastranam Stotram is a scripture of 132 Shalokas.
3. Shalokas 2 to 132 preserve one thousand transcendental designation, names of Lord Shiv.
4. Each name of Lord Shiv is a transcendental formulation of 5-space.
5. Hyper cube-5 is the representative regular body of 5-space.
6. The following 5 x 5 format depicts different roles of 5-Space.
- 7.

5 x 5 format

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

7. Here is being given the table of shalokawise composition of 1000 names of Lord Shiv

Sri Shiv Sahastranam Stotram table

Sr. no.	Shaloka	Nama	Total Name
1	2	11	11
2	3	7	18
3	4	7	25
4	5	9	34
5	6	7	41

6	7	10	51
7	8	9	60
8	9	7	67
9	10	8	75
10	11	8	83
11	12	10	93
12	13	8	101
13	14	11	112
14	15	9	121
15	16	8	129
16	17	8	137
17	18	9	146
18	19	10	156
19	20	7	163
20	21	8	171
21	22	8	179
22	23	7	186
23	24	8	194

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24	25	7	201
25	26	7	208
26	27	7	215
27	28	9	224
28	29	9	233
29	30	9	242
30	31	8	250
31	32	8	258
32	33	9	267
33	34	7	274
34	35	10	284
35	36	9	293
36	37	8	301
37	38	8	309
38	39	9	318
39	40	9	327
40	41	6	333
41	42	6	339
42	43	7	346
43	44	7	353
44	45	7	360
45	46	8	368
46	47	9	377
47	48	8	385
48	49	9	394
49	50	8	402
50	51	8	410
51	52	8	418
52	53	9	427
53	54	8	435
54	55	8	443
55	56	9	452
56	57	7	459
57	58	7	466
58	59	9	475
59	60	8	483
60	61	10	493
61	62	7	500
62	63	8	508
63	64	7	515
64	65	8	523
65	66	6	529
66	67	7	536
67	68	6	542

68	69	7	549
69	70	7	556
70	71	8	564
71	72	8	572
72	73	7	579
73	74	6	585
74	75	8	593
75	76	9	602
76	77	8	610
77	78	7	617
78	79	7	624
79	80	8	632
80	81	7	639
81	82	8	647
82	83	7	654
83	84	8	662
84	85	6	668
85	86	6	674
86	87	6	680
87	88	10	690
88	89	7	697
89	90	8	705
90	91	4	709
91	92	6	715
92	93	6	721
93	94	6	727
94	95	9	736
95	96	8	744
96	97	7	751
97	98	7	758
98	99	7	765
99	100	8	773
100	101	9	782
101	102	8	790
102	103	8	798
103	104	5	803
104	105	6	809
105	106	7	816
106	107	8	824
107	108	7	831
108	109	10	841
109	110	7	848
110	111	8	856
111	112	6	862

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112	113	7	869
113	114	6	875
114	115	7	882
115	116	7	889
116	117	9	898
117	118	9	907
118	119	7	914
119	120	9	923
120	121	6	929
121	122	5	934
122	123	8	942
123	124	5	947
124	125	5	952
125	126	6	958
126	127	7	965
127	128	7	972
128	129	6	978
129	130	8	986
130	131	8	994
131	132	6	1000

8. These names are the transcendental compositions of 5-Space formulations and deserve to be chased, and same would be attempted henceforth.



Dr. S. K. Kapoor
Ved Ratan