

**VEDIC MATHEMATICS ON
ORGANIZATION FORMAT OF GANITA SUTRAS**

About the course

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	<u>36 letters range avail by the Text of</u>	
	<u>Ganita Sutras and Upsutras</u>	

**VEDIC MATHEMATICS ON
ORGANIZATION FORMAT OF GANITA SUTRAS**

- Dr. S. K. Kapoor

Part -0

ANNOUNCEMENT

NEW COURSE FROM DR S K KAPOOR - "ORGANIZATION FORMAT OF GANITA SUTRAS"

A free 100-step course will be available on website www.vedicganita.org. It is to commence from 15 July, 2013.

Ganita Sutras are the powerful system. From first letter to the last letter of the whole text of Ganita Sutras including Ganita Upsutras, there is a complete mathematical organization along geometric format of coverage range from Earth to Sun. Conceptually, in one sentence it may be said that Ganita Sutras avail the organization format of hyper cube 6, the representative regular body of real 6-space.

Ganita Sutras being the Vedic scripture, it is complete in itself and is of self referral features because of which the values of Ganita Sutras unfolds from within the Sutras themselves and as such Ganita Sutras can be interpreted in terms of Ganita Sutras themselves.

Ganita Sutras manifest the principle values of its systems while Ganita Upsutras manifest the complementary values inherently, these manifestations Sutras focus upon Sutra 1 for sequential unfolding of their systems including that of Ganita Upsutras as well. However, Ganita Upsutras as well manifest as a complete system in itself whose sequential unfolding flows from within Ganita Upsutra-1 itself.

Ganita Sutra-1 text avails precisely sixteen letters which supply sequential structural keys for the whole range of Sutras 1 to 16 in that sequence and order. The conceptual overview of this organization feature is along the dimensional synthesis process of reaching dimension of dimension level and the emerging

parabolic coordination thereof distinctively for even and odd orders of dimensional spaces.

Ganita Sutras remain dormant for centuries. In our times, with efforts of Swami Bharti Krishna Tirthji Maharaj, subject gathered momentum. Somehow, the values of the system have remained confined to the illustrative demonstrations worked out by Swami Ji. And, the subject has already shown visible science of stagnation which are bound to make Ganita Sutras again to be dormant, if the things are permitted to remain in the present state. To come out of the present state need is that let us go to the basics of the system starting with the organization format of Ganita Sutras.

Dr. S. K. Kapoor

Part -1
Pre-requisite of the course

I
Acquaintance with Text of Ganita Sutras

This is a course about organization format of Ganita Sutras. In this course text of Ganita Sutras is being chased from its first letter to the last letter of Ganita Sutras (including Ganita Upsutras).

With it, the prime focus point is the text of Ganita Sutras itself.

Therefore it may be taken as a pre-requisite step to have proper acquaintance with the text.

The text, for convenient reference is being reproduced as document no. 1.

II
Acquaintance with Devnagri alphabet

As the original text of Ganita Sutras is in Sanskrit and as the same has reached us in Devnagri script, as such one shall have proper acquaintance with its individual letters script forms as well as as integrated organization format of the whole Devnagri alphabet. However is to have such exposure for the first time, he /she is not to wait on this front but shall simultaneously continue efforts for having proper acquaintance with Devnagri alphabet set up and its individual letter script form.

III
Tabulate one's Learning success

As it is going to be first exposure of its kind, as such the learning success need be tabulated. This impliedly would bring to focus learning difficulties which need be timely to be addressed. For it as well one shall have frank enlisting so that the same can be properly addressed. Towards it, one way would be to share it with others

and to have their resolutions. For it, some help may follow from me, but for it I certainly would need be knowing about the mathematical exposure one has.

IV

Basic mathematical formats

Two basic mathematical formats namely of numbers and of dimensional spaces, are being availed prominently. As such numbers line and geometrical line would be the basic mathematical tool of which one shall have proper handling. Basic focus, here during the course is to center around interval, square and cube as hyper cubes 1, 2 and 3, and this range is to get extended up till hyper cubes 4, 5 and 6. Parallel to it would be the range of hyper circles. One may time and again visit and revisit the set ups of these ranges of geometric bodies manifestations.

Part -2

Preliminary steps

Background thought

1. It may be pointed at the outset that for comprehension of the conceptual terms of the text of Ganita Sutras including that of Ganita Upsutras, we have to reach at the values and format of individual letters availed by the text.
2. For focused attention, this initial lead may be appreciated well with the help of illustrative case of the text of Ganita Sutra-1.
3. Text of Ganita Sutra-1 consists of two words namely (1) 'एकाधिकेन (*Ekadhiken*) (2) पूर्वेण (*Purvena.*)'
4. The word 'एकाधिकेन' (*Ekadhiken*), as such is the first conceptual term which permits simple English rendering as 'one more than'.
5. The word 'एकाधिकेन' (*Ekadhiken*) is composed of sub terms (A) एक / (*Ek*) and (B) अधिकेन (*adhiken*).
6. The sub term अधिकेन (*adhiken*) as well avails sub terms (B) I अधि (*adhi*) and (B) II केन (*ken*).
7. The sub term (B) I (i) अधि (*adhi*) as well avails sub terms अध (*adh*) (B) I (ii) इ (*i*).
8. This way at the end sub terms of terms ultimately take us to the individual letters.
9. And as such, the conceptual terms of the text for their pure and applied values comprehension would require the values and formats accepted by the individual letters of the text.
10. And this reach, that way shall be bringing us face to face with the individualized values and formats of individual letters in the overall context of values of alphabet format itself.
11. The original text of Ganita Sutras is in Sanskrit in Devnagri script.
12. Therefore acquaintance with Devnagri alphabet is going to be of good help.
13. Devnagri alphabet format and Devnagri script form as well is mathematically and geometrically settled.

14. The beauty of Vedic system is that in terms of them beginning and end rest at the same Meant. As such alphabet becomes the starting point of processing as well as the same become the end fruit of the processing.
15. With it, we may start approaching Ganita Sutras in terms of values and format of alphabet and at the end Vedic mathematical systems shall be helping us reach at the virtues of the values and format of alphabet itself.
16. This course aims to decipher information from the text of Ganita Sutras (including Ganita Upsutras) and to reach at the organization format of Ganita Sutras and Ganita Upsutras.
17. Here, the text of Ganita Sutras, would unless and until the context is otherwise, would include both Ganita Sutras as well as Ganita Upsutras.
18. With it, the prime focus naturally would be upon the TEXT (OF GANITA SUTRAS), and as such the same is being reproduced hereunder as the prime document no. 1 of the course.
19. With it the **first preliminary step** for the course, naturally would be that one shall get well acquainted with the text of Sixteen Ganita Sutras and Thirteen Ganita Upsutras as an integrated Text.
20. This text from its first letter (ऀ) / sixth vowel, to its 519th last letter (ः) / Visergania (formatted flow organization), deserves to be chased as such in that sequence and order.
21. This being so, the text deserves to be tabulated in sequential ordering of range 1 to 519 in the sequence and order of the letters being availed by the text of Ganita Sutra 1 to 16 followed by the text of Ganita Upsutra 1 to 13.
22. As such, **second preliminary step** of the course would be to tabulate 519 letters range of the text of Ganita Sutras (1 to 16) followed by Ganita Upsutras (1 to 13) in that sequence and order.
23. Document no. 2 of the course tabulates this 1 to 519 letters range of the text of Ganita Sutras and Upsutras. One shall visit this tabulation to familiarize oneself this range.
24. The text of Ganita Sutras including Ganita Upsutras avails in all 36 letters. Of these 10 are the vowels and 26 are the consonants including two yama letters. As such one shall acquaint well with this 36 letters range (document no. 3).
25. As such **third preliminary step** of the course would be to tabulate letter wise frequencies of appearance in the Text of Ganita Sutras and Upsutras.

This exercise may be of two parts. First part would be to tabulate frequencies for Ganita Sutras and Upsutras separately and second part would be to tabulate frequencies for the integrated whole text of Ganita Sutras including that of Ganita Upsutras.

26. In the light of above preliminary steps, it may well be coming to focus as that:
- i. The Text is of two parts. 16 Sutras and 13 Upsutras.
 - ii. Sutras Text is 283 letters range while Upsutras text is of 236 letters range.
 - iii. Of this 519 letters range of integrated text of Ganita Sutras including Ganita Upsutras, 219 are the vowels and 300 are the consonants including yama letters.
 - iv. To 219 vowels range, Ganita Sutras contribution is of 119 vowels while that of Ganita Upsutras is of 100 vowels.
 - v. The 300 consonants range has 164 consonants contribution from the text of Ganita Sutras and remaining 136 consonants contribution is from the text of Ganita Upsutras.

Document – 1 of the Course

Text

GANITA SUTRAS AND UPSUTRAS

Ganita Sutras

Sutra	Sutra text (Original in Sanskrit, with Roman script in brackets)
01	एकाधिकेन पूर्वेण । (<i>Ekadhiken Purvena.</i>)
02	निखिलं नवतश्चरमं दशतः । (<i>Nikhilam Navataschramam Dasatah</i>)
03	ऊर्ध्वतिर्यग्भ्याम् तर्ध्वतिर्यग्भ्याम् । (<i>Urdhvatiryagbhyam</i>)
04	परावर्त्य योजयेत् । (<i>Paravartya Yojayet</i>)
05	शून्यं साम्यसमुच्चये । (<i>Sunyam Samyasamuccaye</i>)
06	(आनुरूप्ये) शून्यमन्यत् । (<i>Anurupye</i>) <i>Sunyamanyat</i>)
07	संकलव्यवकलनाभ्याम् । (<i>Sankalanavyavakalanabhyam</i>)
08	पूरणापूरणाभ्याम् । (<i>Puranapuranaabhyam</i>)
09	चलनकलनाभ्याम् । (<i>Calanakalanabhyam</i>)
10	यावदूनम् । (<i>Yavadunam</i>)
11	व्यष्टिसमिष्टिः । (<i>Vyastisamastih</i>)
12.	शेषाण्यङ्केन चरमेण । (<i>Sesnyankena Caramena</i>)
13	(सोपान्त्यद्वयमन्तम्) (<i>Sopantyadvyamantyam</i>)
14	एकन्यूनेन पूर्वेण । (<i>Ekanyunena Purvena</i>)
15	गुणितसमुच्चयः । (<i>Gunitasamuccayah</i>)
16	गुणकसमुच्चयः । (<i>Gunaksamuccayah</i>)

Ganita Upsutras

Upsutra	Upsutra text (Original in Sanskrit, with Roman script in brackets)
01	आनुरूप्येण । (Anurupyena)
02	शिष्यते शेषसंज्ञः । (Sisyate Sesasamjnah)
03	आघमाघेनान्त्यमन्त्येन । (Adyamadyenantyamantyen)
04	केवलैः सप्तकं गुण्यात् । (Kevalaih Saptakam Gunyat)
05	वेष्टनम् । (Vestanam)
06	यावदूनं तावदूनम् । (Yavadunam Tavadunam)
07	यावदूनं तावदूनीकृत्य वर्गं च योजयेत् । (Yavadunam Tavadunikrtya Vargan ca Yojayet)
08	अन्त्ययोर्दशकेपि । (Antyayordasake'pi)
09	अन्त्ययोरेव । (Antyayoreva)
10	समुच्चयगुणितः । (Samuccayagunitah)
11	लोपनस्थपनाभ्याम् । (Lopana Sthapananabhyam)
12	विलोकनम् (Vilokanam)
13	गुणितसमुच्चयः समुच्चयगुणितः (GunitaSamuccaya Samuccayagunitah)

Document no. 2 of the course

Range of 519 letters of the text

Sr.	Sutra	Letter
001	Sutra-1	ए
002	Sutra-1	क्
003	Sutra-1	आ
004	Sutra-1	ध्
005	Sutra-1	इ
006	Sutra-1	क्
007	Sutra-1	ए
008	Sutra-1	न्
009	Sutra-1	अ
010	Sutra-1	प्
011	Sutra-1	ऊ
012	Sutra-1	र्
013	Sutra-1	व्
014	Sutra-1	ए
015	Sutra-1	प्
016	Sutra-1	अ
017	Sutra-2	न्
018	Sutra-2	इ
019	Sutra-2	ख्
020	Sutra-2	इ
021	Sutra-2	ल्
022	Sutra-2	अ
023	Sutra-2	.
024	Sutra-2	न्
025	Sutra-2	अ
026	Sutra-2	व्
027	Sutra-2	अ
028	Sutra-2	त्
029	Sutra-2	अ
030	Sutra-2	श्
031	Sutra-2	च्
032	Sutra-2	अ
033	Sutra-2	र
034	Sutra-2	अ

035	Sutra-2	म्
036	Sutra-2	अ
037	Sutra-2	.
038	Sutra-2	द्
039	Sutra-2	अ
040	Sutra-2	श्
041	Sutra-2	अ
042	Sutra-2	त्
043	Sutra-2	अ
044	Sutra-2	:
045	Sutra-3	ऊ
046	Sutra-3	घ्
047	Sutra-3	र्
048	Sutra-3	व्
049	Sutra-3	अ
050	Sutra-3	त्
051	Sutra-3	इ
052	Sutra-3	र्
053	Sutra-3	य्
054	Sutra-3	अ
055	Sutra-3	ग्
056	Sutra-3	भ्
057	Sutra-3	य्
058	Sutra-3	आ
059	Sutra-3	म्
060	Sutra-4	प्
061	Sutra-4	अ
062	Sutra-4	र्
063	Sutra-4	आ
064	Sutra-4	व्
065	Sutra-4	अ
066	Sutra-4	र्
067	Sutra-4	त्
068	Sutra-4	य्
069	Sutra-4	अ
070	Sutra-4	य्
071	Sutra-4	ओ

072	Sutra-4	ञ्
073	Sutra-4	अ
074	Sutra-4	य्
075	Sutra-4	ए
076	Sutra-4	त्
077	Sutra-5	श्
078	Sutra-5	ऊ
079	Sutra-5	न्
080	Sutra-5	य्
081	Sutra-5	अ
082	Sutra-5	
083	Sutra-5	स्
084	Sutra-5	आ
085	Sutra-5	म्
086	Sutra-5	य्
087	Sutra-5	अ
088	Sutra-5	स्
089	Sutra-5	अ
090	Sutra-5	म्
091	Sutra-5	उ
092	Sutra-5	च्
093	Sutra-5	च्
094	Sutra-5	अ
095	Sutra-5	य्
096	Sutra-6	ए
097	Sutra-6	आ
098	Sutra-6	न्
099	Sutra-6	उ
100	Sutra-6	र्
101	Sutra-6	ऊ
102	Sutra-6	प्
103	Sutra-6	य्
104	Sutra-6	ए
105	Sutra-6	श्
106	Sutra-6	ऊ

107	Sutra-6	न्
108	Sutra-6	य्
109	Sutra-6	अ
110	Sutra-6	म्
111	Sutra-6	अ
112	Sutra-6	न्
113	Sutra-6	य्
114	Sutra-6	अ
115	Sutra-6	त्
116	Sutra-7	स्
117	Sutra-7	अ
118	Sutra-7	
119	Sutra-7	क्
120	Sutra-7	अ
121	Sutra-7	ल्
122	Sutra-7	अ
123	Sutra-7	न्
124	Sutra-7	अ
125	Sutra-7	य्
126	Sutra-7	य्
127	Sutra-7	अ
128	Sutra-7	व्
129	Sutra-7	अ
130	Sutra-7	क्
131	Sutra-7	अ
132	Sutra-7	ल्
133	Sutra-7	अ
134	Sutra-7	ल्
135	Sutra-7	आ
136	Sutra-7	भ्
137	Sutra-7	य्
138	Sutra-7	आ
139	Sutra-7	म्
140	Sutra-8	प्
141	Sutra-8	ऊ
142	Sutra-8	र्

143	Sutra-8	अ
144	Sutra-8	प्
145	Sutra-8	आ
146	Sutra-8	प्
147	Sutra-8	ऊ
148	Sutra-8	र्
149	Sutra-8	अ
150	Sutra-8	प्
151	Sutra-8	आ
152	Sutra-8	भ्
153	Sutra-8	य्
154	Sutra-8	आ
155	Sutra-8	म्
156	Sutra-9	च्
157	Sutra-9	अ
158	Sutra-9	ल्
159	Sutra-9	अ
160	Sutra-9	न्
161	Sutra-9	अ
162	Sutra-9	क्
163	Sutra-9	ऊ
164	Sutra-9	ल्
165	Sutra-9	अ
166	Sutra-9	न्
167	Sutra-9	आ
168	Sutra-9	भ्
169	Sutra-9	य्
170	Sutra-9	भ्
171	Sutra-9	म्
172	Sutra-10	य्
173	Sutra-10	आ
174	Sutra-10	व्
175	Sutra-10	अ
176	Sutra-10	द्
177	Sutra-10	ऊ

178	Sutra-10	न्
179	Sutra-10	अ
180	Sutra-10	म्
181	Sutra-11	व्
182	Sutra-11	य्
183	Sutra-11	अ
184	Sutra-11	ष्
185	Sutra-11	ट्
186	Sutra-11	इ
187	Sutra-11	स्
188	Sutra-11	अ
189	Sutra-11	म्
190	Sutra-11	अ
191	Sutra-11	ष्
192	Sutra-11	ट्
193	Sutra-11	इ
194	Sutra-11	:
195	Sutra-11	श्
196	Sutra-11	ए
197	Sutra-11	ष्
198	Sutra-11	आ
199	Sutra-11	प्
200	Sutra-11	ए
201	Sutra-11	अ
202	Sutra-11	ङ्
203	Sutra-11	क्
204	Sutra-11	ए
205	Sutra-12	न्
206	Sutra-12	अ
207	Sutra-12	च्
208	Sutra-12	अ
209	Sutra-12	र्
210	Sutra-12	अ
211	Sutra-12	म्
212	Sutra-12	ए
213	Sutra-12	प्

214	Sutra-12	अ
215	Sutra-13	स्
216	Sutra-13	ओ
217	Sutra-13	प्
218	Sutra-13	आ
219	Sutra-13	न्
220	Sutra-13	त्
221	Sutra-13	य्
222	Sutra-13	अ
223	Sutra-13	द्
224	Sutra-13	व्
225	Sutra-13	अ
226	Sutra-13	य्
227	Sutra-13	अ
228	Sutra-13	न्
229	Sutra-13	अ
230	Sutra-13	न्
231	Sutra-13	त्
232	Sutra-13	य्
233	Sutra-13	द्
234	Sutra-13	म्
235	Sutra-14	ए
236	Sutra-14	क्
237	Sutra-14	अ
238	Sutra-14	न्
239	Sutra-14	य्
240	Sutra-14	ऊ
241	Sutra-14	न्
242	Sutra-14	ए
243	Sutra-14	न्
244	Sutra-14	अ
245	Sutra-14	प्
246	Sutra-14	ऊ
247	Sutra-14	र्
248	Sutra-14	व्
249	Sutra-14	ए

250	Sutra-14	प्
251	Sutra-14	अ
252	Sutra-15	ग्
253	Sutra-15	उ
254	Sutra-15	प्
255	Sutra-15	इ
256	Sutra-15	त्
257	Sutra-15	अ
258	Sutra-15	स्
259	Sutra-15	अ
260	Sutra-15	म्
261	Sutra-15	इ
262	Sutra-15	च्
263	Sutra-15	च्
264	Sutra-15	अ
265	Sutra-15	य्
266	Sutra-15	अ
267	Sutra-15	:
268	Sutra-16	ग्
269	Sutra-16	उ
270	Sutra-16	प्
271	Sutra-16	अ
272	Sutra-16	क्
273	Sutra-16	अ
274	Sutra-16	स्
275	Sutra-16	अ
276	Sutra-16	म्
277	Sutra-16	उ
278	Sutra-16	च्
279	Sutra-16	च्
280	Sutra-16	अ
281	Sutra-16	य्
282	Sutra-16	अ
283	Sutra-16	:
284	Upsutra-1	आ
285	Upsutra-1	न्

286	Upsutra-1	उ
287	Upsutra-1	र
288	Upsutra-1	ऊ
289	Upsutra-1	प्
290	Upsutra-1	य्
291	Upsutra-1	ए
292	Upsutra-1	ण्
293	Upsutra-1	अ
294	Upsutra-2	श्
295	Upsutra-2	इ
296	Upsutra-2	ष्
297	Upsutra-2	य्
298	Upsutra-2	अ
299	Upsutra-2	त्
300	Upsutra-2	ए
301	Upsutra-2	श्
302	Upsutra-2	ए
303	Upsutra-2	ष्
304	Upsutra-2	अ
305	Upsutra-2	स्
306	Upsutra-2	अ
307	Upsutra-2	
308	Upsutra-2	ज्
309	Upsutra-2	
310	Upsutra-2	अ
311	Upsutra-2	:
312	Upsutra-3	आ
313	Upsutra-3	द्
314	Upsutra-3	य्
315	Upsutra-3	अ
316	Upsutra-3	म्
317	Upsutra-3	आ
318	Upsutra-3	द्
319	Upsutra-3	य्
320	Upsutra-3	ए
321	Upsutra-3	न्

322	Upsutra-3	आ
323	Upsutra-3	न्
324	Upsutra-3	त्
325	Upsutra-3	य्
326	Upsutra-3	अ
327	Upsutra-3	म्
328	Upsutra-3	अ
329	Upsutra-3	न्
330	Upsutra-3	त्
331	Upsutra-3	य्
332	Upsutra-3	ए
333	Upsutra-3	न्
334	Upsutra-3	अ
335	Upsutra-4	क्
336	Upsutra-4	ए
337	Upsutra-4	व्
338	Upsutra-4	अ
339	Upsutra-4	ल्
340	Upsutra-4	ऐ
341	Upsutra-4	:
342	Upsutra-4	स्
343	Upsutra-4	अ
344	Upsutra-4	प्
345	Upsutra-4	त्
346	Upsutra-4	अ
347	Upsutra-4	क्
348	Upsutra-4	अ
349	Upsutra-4	-
350	Upsutra-4	ग्
351	Upsutra-4	अ
352	Upsutra-4	ण्
353	Upsutra-4	य्
354	Upsutra-4	आ
355	Upsutra-4	त्
356	Upsutra-5	व्
357	Upsutra-5	ए

358	Upsutra-5	ॢ
359	Upsutra-5	ॣ
360	Upsutra-5	अ
361	Upsutra-5	न्
362	Upsutra-5	अ
363	Upsutra-5	म्
364	Upsutra-6	य्
365	Upsutra-6	आ
366	Upsutra-6	व्
367	Upsutra-6	अ
368	Upsutra-6	द्
369	Upsutra-6	ऊ
370	Upsutra-6	न्
371	Upsutra-6	अ
372	Upsutra-6	
373	Upsutra-6	त्
374	Upsutra-6	आ
375	Upsutra-6	व्
376	Upsutra-6	अ
377	Upsutra-6	द्
378	Upsutra-6	ऊ
379	Upsutra-6	न्
380	Upsutra-6	अ
381	Upsutra-6	म्
382	Upsutra-7	य्
383	Upsutra-7	आ
384	Upsutra-7	व्
385	Upsutra-7	अ
386	Upsutra-7	द्
387	Upsutra-7	ऊ
388	Upsutra-7	न्
389	Upsutra-7	अ
390	Upsutra-7	
391	Upsutra-7	त्
392	Upsutra-7	आ

393	Upsutra-7	व्
394	Upsutra-7	अ
395	Upsutra-7	द्
396	Upsutra-7	ऊ
397	Upsutra-7	न्
398	Upsutra-7	इ
399	Upsutra-7	क्
400	Upsutra-7	ऋ
401	Upsutra-7	त्
402	Upsutra-7	यृ
403	Upsutra-7	अ
404	Upsutra-7	व्
405	Upsutra-7	अ
406	Upsutra-7	र
407	Upsutra-7	ग्
408	Upsutra-7	अ
409	Upsutra-7	
410	Upsutra-7	च्
411	Upsutra-7	अ
412	Upsutra-7	य्
413	Upsutra-7	ओ
414	Upsutra-7	ज्
415	Upsutra-7	अ
416	Upsutra-7	य्
417	Upsutra-7	ए
418	Upsutra-7	त्
419	Upsutra-8	अ
420	Upsutra-8	न्
421	Upsutra-8	त्
422	Upsutra-8	य्
423	Upsutra-8	अ
424	Upsutra-8	य्
425	Upsutra-8	ओ
426	Upsutra-8	द्
427	Upsutra-8	अ
428	Upsutra-8	र्

429	Upsutra-8	श
430	Upsutra-8	अ
431	Upsutra-8	क्
432	Upsutra-8	ए
433	Upsutra-8	प्
434	Upsutra-8	इ
435	Upsutra-9	अ
436	Upsutra-9	न्
437	Upsutra-9	त्
438	Upsutra-9	य्
439	Upsutra-9	अ
440	Upsutra-9	य्
441	Upsutra-9	ओ
442	Upsutra-9	र्
443	Upsutra-9	ए
444	Upsutra-9	व्
445	Upsutra-9	अ
446	Upsutra-9	स्
447	Upsutra-10	अ
448	Upsutra-10	म्
449	Upsutra-10	उ
450	Upsutra-10	च्
451	Upsutra-10	च्
452	Upsutra-10	अ
453	Upsutra-10	य्
454	Upsutra-10	अ
455	Upsutra-10	ग्
456	Upsutra-10	उ
457	Upsutra-10	ण्
458	Upsutra-10	इ
459	Upsutra-10	त्
460	Upsutra-10	अ
461	Upsutra-10	:
462	Upsutra-10	ल्
463	Upsutra-11	ओ
464	Upsutra-11	प्

465	Upsutra-11	अ
466	Upsutra-11	न्
467	Upsutra-11	अ
468	Upsutra-11	रु
469	Upsutra-11	थ्
470	Upsutra-11	आ
471	Upsutra-11	प्
472	Upsutra-11	अ
473	Upsutra-11	अ
474	Upsutra-11	न्
475	Upsutra-11	आ
476	Upsutra-11	भ्
477	Upsutra-11	आ
478	Upsutra-11	ण्
479	Upsutra-11	व्
480	Upsutra-12	इ
481	Upsutra-12	ल्
482	Upsutra-12	ओ
483	Upsutra-12	क्
484	Upsutra-12	अ
485	Upsutra-12	न्
486	Upsutra-12	अ
487	Upsutra-12	म्
488	Upsutra-12	ग्
489	Upsutra-13	उ
490	Upsutra-13	ण्
491	Upsutra-13	इ
492	Upsutra-13	त्
493	Upsutra-13	अ
494	Upsutra-13	स्
495	Upsutra-13	अ
496	Upsutra-13	म्
497	Upsutra-13	उ
498	Upsutra-13	च्
499	Upsutra-13	च्
500	Upsutra-13	अ

501	Upsutra-13	य्
502	Upsutra-13	अ
503	Upsutra-13	:
504	Upsutra-13	स्
505	Upsutra-13	अ
506	Upsutra-13	म्
507	Upsutra-13	उ
508	Upsutra-13	च्
509	Upsutra-13	च्
510	Upsutra-13	अ
511	Upsutra-13	य्
512	Upsutra-13	अ
513	Upsutra-13	ग्
514	Upsutra-13	उ
515	Upsutra-13	ण्
516	Upsutra-13	इ
517	Upsutra-13	त्
518	Upsutra-13	अ
519	Upsutra-13	:

Document no. 3

36 letters range avail by the Text of
Ganita Sutras and Upsutras

Sr.	1	2	3	4	5	6	7	8	9	10	
Letters	अ	आ	इ	ई	उ	ऊ	ऋ	ए	ऐ	ओ	

Sr.	11	12	13	14	15	16	17	18	19	20	
Letters	क्	ख्	ग्	ङ.	च्	ज्	झ	ट्	प्	त्	
Sr.	21	22	23	24	25	26	27	28	29	30	
Letters	थ्	द्	ध्	न्	प्	भ्	म्	य्	र्	ल्	
Sr.	31	32	33	34	35	36					
Letters	व्	श्	स्	ष्	.	:					