



Paper: 6.2

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

1. Answer the following questions:

 $1 \times 7 = 7$

- (a) How many Chapters are there in 'बृहत्संहिता'?
- (b) What is the meaning of the word 'उदुम्बर:'?
- (c) How many types of pillars (स्तम्भ) are mentioned in 'बृहत्संहिता'?
- (d) Write the name of a tree where grafting can be done.
- (e) What is the total number of Verses in 55th Chapter of 'बृहत्संहिता'?

- What is the first part of the work Siddhāntaśiromani?
- Which term is used by Bhāskarācārya for multiplication?
- 2. Answer the following questions briefly: $2 \times 4 = 8$
 - Why should trees be planted on the bank of a pond?
 - (b) Write how a tamarind seed can produce sprout.
 - (c) Write briefly about of रुचक type of वास्तु.
 - (d) When was Bhāskarācārya born? In which year Siddhāntaśiromani was written?
- 3. Answer the following questions:

5×3=15

- (a) Write the First Verse from 'लीलावती'.
- (b) Write the names of the trees which are grown in moist soil (अनूपजाः).
- (c) State the views of Varāhamihira regarding the height of the storeys of buildings and walls of all houses

4. Answer the following questions:

 $10 \times 3 = 30$

Explain the following verse: उत्तममष्टाभ्यधिकं हस्तशतं नुपगृहं पृथुत्वेन्। अष्ट्राष्ट्रोनान्येवं पश्च सपदानि दैर्घ्येण॥

Or

Discuss the features of the residential houses of astrologers, priests and physicians as you find in 'बृहत्संहिता'.

(b) According to Varāhamihira, which is the suitable time for plantation of trees? What should be the distance between two trees?

Or

What type of land is prescribed for plantation? What are the measures to be taken for the growth of trees?

(c) What according to Līlāvatī are the units of measuring grains in volume?

Or

Write a note on the contribution of Bhāskarācārya in the field of Indian Mathematics.

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