



( 2 )

- (f) What is the first part of the work *Siddhāntaśiromaṇi*?
- (g) Which term is used by Bhāskarācārya for multiplication?

2. Answer the following questions briefly :  $2 \times 4 = 8$

- (a) 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 *Siddhāntaśiromaṇi* was written?

3. Answer the following questions :  $5 \times 3 = 15$

- (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.

( 3 )

4. Answer the following questions :  $10 \times 3 = 30$

- (a) Explain the following verse :

उत्तममष्टाभ्यधिकं हस्तशतं नृपगृहं पृथुत्वेन।  
अष्टाष्टोनान्येवं पञ्च 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 *Līlāvātī* 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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