

Exam. Code : 103206

Subject Code : 1392

B.A./B.Sc. Semester—VI

BOTANY

(Ecology and Utilization of Plants)

Time Allowed—3 Hours] [Maximum Marks—75

**Note** :— Attempt FIVE questions in all, selecting ONE question each from Units I to IV and the first compulsory question of short answer type items. All questions carry equal marks. Draw diagrams/illustrations wherever necessary.

1. Answer the following in 3-4 lines :
- (i) What is vernalization ?
  - (ii) What is alpha biodiversity ?
  - (iii) What do you understand from sciophytes ?
  - (iv) What are the features of firewood plants ?
  - (v) What do you mean by global radiation ?
  - (vi) What are ecads ?
  - (vii) Draw phosphorus cycle.
  - (viii) What are spices ? Write two examples.
  - (ix) What is the importance of *Aconitum* ?
  - (x) Write two salient features and importance of *Rauwolfia*. 1.5×10=15

UNIT—I

2. Describe morphological, anatomical and physiological responses of hydrophytes. 15
3. (a) Describe various characteristics of soil.  
(b) Give only illustration to show water cycle.

10+5=15

UNIT—II

4. Write short notes on :
  - (a) Ecological pyramids
  - (b) Ecological succession
  - (c) Dynamics of land use. 3×5=15
5. Describe various types of forests found in India. 15

UNIT—III

6. Describe botanical features, classification, part used and uses of sugarcane, potato and maize. 15
7. Write short notes on :
  - (a) Bamboos
  - (b) Timber
  - (c) Plant fibres. 3×5=15

UNIT—IV

8. Write botanical name, family, part used and two main uses of Cinnamon, Ginger, Mint, Black pepper and Coriander. 15
9. Give botanical nomenclature, family, parts used, and uses of Tea, Amla and Poppy. 15