

Exam. Code : 103204

Subject Code : 1370

B.A./B.Sc. Semester—IV

BOTANY

(Structure, Development and Reproduction in
Flowering Plants—II)

Paper—IV (B)

Time Allowed—3 Hours] [Maximum Marks—35

Note :— Question No. 1 is compulsory and answer should be restricted to **FOUR** lines. Attempt any **FOUR** questions from remaining **EIGHT** questions. All questions carry equal marks.

1. Define/Explain the following :
 - (i) Quiescent zone
 - (ii) Double fertilization
 - (iii) Helobial endosperm
 - (iv) Seed dormancy
 - (v) Gynostegium
 - (vi) Pneumatophores
 - (vii) Synergids.
2. Describe various theories regarding organisation of root apical meristem.

3. With the help of labelled diagrams describe the structure and function of phloem.
4. Write explanatory notes on the following :
 - (i) Storage roots
 - (ii) Mycorrhiza.
5. Describe advantages and various methods of grafting in detail.
6. With the help of labelled diagrams describe the structure of typical anther. Describe the function of different wall layers.
7. Give an illustrated account of development and structure of Polygonum type of embryo sac.
8. Define self incompatibility. Discuss its type and methods to overcome self incompatibility.
9. Write a concise account of different strategies adopted by seed bearing plants for dispersal of seeds.