Exam. Code : 103204 Subject Code: 1338

B.A./B.Sc. Semester—IV

BOTANY

(Structure, Development and Reproduction in Flawering 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:
 - Triple fusion (i)
 - (ii) Cellular endosperm
 - (iii) Seed dormancy
 - (iv) Bisporic embryo sac
 - (v) Pneumatophores
 - (vi) Quiescent zone
 - (vii) Antipodals.

 $7 \times 1 = 7$

- With the help of labelled diagrams compare apical cell and histogen theories of root apical meristem organisation.
- With the help of labelled diagrams describe the structure 3. and function of xylem.

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(Contd.)

- Write explanatory notes on the following:
 - (i) Modification of root for storage
 - Interaction of roots with microbes.
- Describe advantages and various methods of budding in detail
- With the help of labelled diagrams describe the types of tapetum. Describe the function of different wall layers of a typical anther.
- 7. Give an illustrated account of development and structure of most common type of embryo sac found in angiosperms.
- 8. What is self incompatibility? Discuss its significance and methods to overcome self incompatibility.
- Write a concise account of the following: 9.
 - Strategies for dispersal of seeds (i)
 - Seed Dormancy: its significance and physiology. (ii)

 $4 \times 7 = 28$

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