

M.Sc.(Botany) (CBCS Pattern) Semester - IV
PSCBOTT15.1 - Paper-XV : Reproductive Biology of Angiosperm-II

P. Pages : 1

Time : Three Hours



GUG/S/23/11358

Max. Marks : 80

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- Notes : 1. Solve all questions, carries equal marks.
2. Draw labelled diagram wherever necessary.

1. Discuss the types, chemical composition of endosperm and add a note on role of endosperm in embryo development. **16**

OR

Write notes on-

- a) Isolation and characterization of sperm. **8**
b) Gynogenesis. **8**
2. Describe the ultrastructure and cytology of suspensor cell. **16**

OR

Write notes on-

- a) Importance of polyembryony. **8**
b) Ultrastructure of zygote. **8**
3. Give an account of technique and nutritional aspects of embryo culture. **16**

OR

Write short note on-

- a) Androgenesis. **8**
b) Somatic embryogenesis. **8**
4. Explain the Technique of isolation and culture method of protoplast and its applications. **16**

OR

Write notes on-

- a) Fusion of protoplast. **8**
b) Bioreactors. **8**

5. Write short notes on-

- a) Intra ovarian pollination. **4**
b) Causes of polyembryony. **4**
c) Mellitopalynology. **4**
d) Biotransformation. **4**
