

M.Sc. (Botany) (NEP Pattern) Semester-II
02MSCB-4.2 - Major Elective DSE Paper-VII-Paper-VIII-
Reproductive Biology of Angiosperms-II

P. Pages : 1

Time : Three Hours



GUG/S/25/15345

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well labeled diagram wherever necessary.

1. Explain in detail structure of pollen grain. Add note on pollen wall structure and adaptive significance of pollen wall. **16**

OR

Write note on-

- a) Pollen abortion and male sterility. **8**
b) Causes for loss of pollen viability. **8**

2. Give detail account of development of the male of gametophyte. **16**

OR

Write notes on-

- a) Floral attractants and rewards. **8**
b) Biotic and abiotic pollination. **8**

3. What is an ovule? Explain different types of ovules and its and its structure details. **16**

OR

Write note on-

- a) Types of embryo sacs. **8**
b) Ultrastructure of synergids and egg. **8**

4. What is a self-incompatibility? Explain basic concepts of self-incompatibility and its mechanism. **16**

OR

Write note on-

- a) Post pollination events. **8**
b) Pollen germination and pollen tube growth. **8**

5. Write short notes on-
- a) Gametocides. **4**
b) Chiropterophily. **4**
c) Megasporogenesis. **4**
d) Pollen allelopathy. **4**
