

M.Sc.(Botany) (CBCS Pattern) Third Semester
PSDBOTT11-1 - Paper-XI (DSE-I) : Reproductive Biology of Angiosperms-I

P. Pages : 1

Time : Three Hours



GUG/W/18/11244

Max. Marks : 80

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

1. Describe in detail the structure of mature anther. Explain wall of anther with their functions. **16**

OR

Write notes on-

- a) Meiosis specific genes. **8**
b) Adaptive significance of pollen wall. **8**
2. Explain in details development of male gametophyte. Add a note on gene expression during pollen development. **16**

OR

Write notes on-

- a) Pollen abortion and male sterility. **8**
b) Differential behavior of sperms. **8**
3. Explain in detail the process of megasporogenesis. **16**

OR

Write notes on:-

- a) Ovule and its structural details. **8**
b) Types of embryo sac. **8**
4. Explain mechanism of pollination. Add a note on biotic and abiotic pollination. **16**

OR

Write notes on:-

- a) Pollen pistil interaction. **8**
b) Self incompatibility. **8**
5. Write short notes on-
- a) Pollen wall proteins. **4**
b) Gametocides. **4**
c) Nutrition of embryo Sac **4**
d) Pollen allelopathy. **4**
