

M.Sc.(Botany) (CBCS Pattern) Semester-III
PSDBOTT11-1 - DSE-I Paper-XI - Reproductive Biology of Angiosperm-I

P. Pages : 1

Time : Three Hours



GUG/W/24/11244

Max. Marks : 80

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

1. What is Anther? Describe the T.S. of Anther and microsporogenesis in detail. **16**

OR

Write notes on:

- a) Molecular biology of meiosis. **8**
b) Pollen Tetrad development. **8**

2. What is male gametophyte? Describe the development of male gametophyte in detail. **16**

OR

Write notes on:

- a) Role of Mitochondrial genome in male sterility. **8**
b) Pollen abortion and male sterility. **8**

3. What is embryo sac? Describe types of embryo sac in detail. **16**

OR

- a) Enzymatic isolation of embryo sac. **8**
b) Carpel determination. **8**

4. What is pollinating agent? Describe abiotic and biotic pollinating agent in detail. **16**

OR

Write notes on:

- a) Pollen pistil interaction. **8**
b) Parasexual hybridization. **8**

5. Write short notes on:
a) Pollen wall protein. **4**
b) Gametocides. **4**
c) Functional megaspore. **4**
d) Self incompatibility importance. **4**
