

M.Sc.(Botany) (CBCS Pattern) Sem-II
PSCBOTT06 - Paper-VI : Plant Development and Reproduction

P. Pages : 1

Time : Three Hours



GUG/W/22/11196

Max. Marks : 80

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

1. Describe various theories regarding organization of shoot apical meristem (SAM) **16**

OR

Write on:

- a) Role of phytohormone in plant development. **8**
b) Control of cell division and cell communication. **8**

2. Give an account of differentiation of epidermis with special reference to stomata, trichomes and mesophyll. **16**

OR

Write on:

- a) Organization of Root Apical Meristem (RAM) **8**
b) Pollination mechanism and vectors. **8**

3. Give an account of microsporogenesis and development of male gametophyte in angiosperms. **16**

OR

Write on:

- a) Organization of embryo sac. **8**
b) Pollen tube growth and guidance. **8**

4. Give an account of various types of endosperm development. **16**

OR

Write on:

- a) Seed dormancy. **8**
b) Embryogenesis. **8**

5. Write short notes on:
a) Chemical nature of Auxin. **4**
b) Role of florigen. **4**
c) Male sterility. **4**
d) Programmed Cell Death (PCD). **4**
