

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

P. Pages : 1

Time : Three Hours



GUG/W/24/11196

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate your answers with diagrams & suitable examples.

1. Give an account of cytological and molecular analysis of SAM. 16

OR

Write notes on:

- a) Classification of plant hormones. 8
b) Control of cell division and cell communication. 8

2. Write on differentiation of epidermis with respect to stomatal development. 16

OR

Write notes on:

- a) Phyllotaxy and its type. 8
b) Florigen concept and photoperiodism. 8

3. Give detailed account on microsporogenesis. 16

OR

Write notes on:

- a) Structure and organization of embryo sac. 8
b) Pollen-pistil interaction. 8

4. Biochemical & hormonal control on germination of seed & endosperm development. 16

OR

Write notes on:

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

5. Write short notes on:
- a) Tissue differentiation. 4
b) Root microbe interactions. 4
c) *In vitro* fertilization. 4
d) Polyembryony. 4
