

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

P. Pages : 1

Time : Three Hours



GUG/S/23/11196

Max. Marks : 80

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

1. What are phytohormones? Write on their role in plant development. **16**
OR
Write notes on
a) Kinetics of plant growth **8**
b) Autonomy of meristem **8**
2. What are homeotic mutants? Describe homeotic mutations in Arabidopsis. **16**
OR
Write notes on:
a) Organization of root optical meristem (RAM) **8**
b) Root microbe interaction. **8**
3. Give an account of pollen development and maturation. **16**
OR
Write notes on:
a) Ovule types. **8**
b) Tapetum and its function. **8**
4. What is programmed cell death? Describe various types of cell deaths in life cycle of plant. **16**
OR
Write notes on:
a) Polyembryony **8**
b) Bud Dormancy **8**
5. Write short notes on:
a) Phloem differentiation in shoot. **4**
b) Insect pollination and adaptation. **4**
c) Male sterility **4**
d) Types of senescence **4**
