

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

P. Pages : 1

Time : Three Hours



GUG/W/23/11196

Max. Marks : 80

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- Notes : 1. All question carry equal marks.
2. Illustrate your answers with suitable examples and diagram.

1. Describe various theories of shoot apical meristem. **16**

OR

Write notes on:

- a) Control of tissue differentiation. **8**
b) Role of Phytohormone in plant Development. **8**

2. Discuss briefly the physiology of flowering. **16**

OR

Write notes on:

- a) Root apical meristem. **8**
b) Photoperiodism. **8**

3. Describe in detail structure and organization of embryo sac. **16**

OR

Write notes on:

- a) Pollen-Pistil Interaction. **8**
b) Microsporogenesis. **8**

4. What is seed dormancy? Describe its types and Importance. **16**

OR

Write notes on:

- a) Development of endosperm. **8**
b) Programmed cell death. **8**

5. Write short notes on:

- a) Cell communication. **4**
b) Florigen concept. **4**
c) Double fertilization. **4**
d) Apomixes. **4**
