

M.Sc. (Botany) (NEP Pattern) Semester-II
02MSCB-2 - Paper-II - Plant Development & Embryology

P. Pages : 1

Time : Three Hours



GUG/S/25/15342

Max. Marks : 80

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

- 1.** Write in detail about shoot apical meristem (SAM) organization. **16**
OR
Write on-
a) Control of cell division & cell communication. **8**
b) Control of tissue differentiation. **8**
- 2.** Write in detail about physiology of flowering, florigen concept and photoperiodism. **16**
OR
Write on-
a) Differentiation of Epidermis. **8**
b) Root microbe interactions. **8**
- 3.** Write in detail about structure of anther, micro-sporogenesis, tapetum. **16**
OR
Write on-
a) Sperm dimorphism. **8**
b) Pollen-tube growth and guidance. **8**
- 4.** Write in detail about Pollen-Pistil interaction. **16**
OR
Write on-
a) Floral attractions and rewards. **8**
b) Pollen allelopathy. **8**
- 5.** Write short notes on-
a) Classification of phytohormones. **4**
b) Lateral root hairs. **4**
c) Pollen germination. **4**
d) Chemotropism. **4**
