

M.Sc. (Botany) (NEP Pattern) Semester-III
03MSCBOT04.2 - Paper-IV : Reproductive Biology and Angiosperm-III

P. Pages : 1

Time : Two Hours



GUG/S/25/15956

Max. Marks : 40

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- Notes : 1. All questions are compulsory & carry equal marks.
2. Draw a diagram wherever necessary.

1. Describe the process of double fertilization and triple fusion and its significance. 8

OR

Write notes on-

- a) Invitro pollination and fertilization. 4
b) Cellular nature of sperm and cytoskeleton. 4

2. Describe the various types of endosperms and their importance. 8

OR

Write notes on-

- a) Embryo-endosperm relationship & role of endosperm in embryo development. 4
b) Causes and classification of polyembryony. 4

3. Describe the embryogenesis and structure of dicot and monocot embryo. 8

OR

Write notes on-

- a) Types of embryogeny. 4
b) Physiology and biochemistry of suspensor. 4

4. Describe the different steps and types of seed germination. 8

OR

Write notes on-

- a) Structure of dicot and monocot seed. 4
b) Adaptations and functions of sarcotestal seed. 4

5. Write short notes on-
- a) Cybrids. 2
b) Integument. 2
c) Embryogeny. 2
d) Winged seeds. 2
