

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

P. Pages : 1

Time : Two Hours



GUG/W/24/15956

Max. Marks : 40

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw diagram wherever necessary and illustrate your answers with suitable examples.

1. Explain in detail process of double fertilization and triple fusion and its significance. 8
OR
Write note on.
a) Growth of the pollen tube through the style. 4
b) Intra-ovarian pollination. 4
2. Define polyembryony. Explain its causes, and its practical importance. 8
OR
Write note on
a) Types of endosperms. 4
b) Incorporation of nucellus and integument in endosperm formation. 4
3. What is a suspensor? Explain ultra structure and biochemistry of suspensor. 8
OR
Write note on
a) Structure of dicot embryo. 4
b) Symmetry of embryo. 4
4. Describe in detail physiological changes occurring during seed development and factors affecting seed development. 8
OR
Write note on:
a) Seed structure in monocots 4
b) Types of seed germination. 4
5. Write short notes on:
a) Cybrids 2
b) Endosperm mutants 2
c) Embryogenesis 2
d) Winged and hairy Seeds. 2
