

M.Sc. (Botany) (NEP Pattern) Semester-I
NEP-04-2 / 01MSCB4.2 - Paper-IV : Reproductive Biology of Angiosperms-I

P. Pages : 1

Time : Three Hours



GUG/S/25/15065

Max. Marks : 80

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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 brief the life cycle of Angiosperms. Add a note on asexual reproduction in Angiosperms. 16

OR

Write note on-

- a) Role of E. Strasburger and P. Maheshwari. 8
b) Role of embryology in relation to taxonomy. 8

2. Why flower is a modified shoot? Explain it in detail with suitable examples. Add a note on its different floral whorls. 16

OR

Write note on-

- a) Floral formula and floral diagram. 8
b) Types of Flowers on the basis of sex organs present and Position of floral leaves. 8

3. What is an inflorescence? Explain its types and special types of inflorescence. 16

OR

Write note on-

- a) Genetic regulation of monoecious plants. 8
b) Genetics of sexuality in dioecious plants. 8

4. Describe in detail T.S. of Anther lobe. Add a note on microsporangium. 16

OR

Write note on-

- a) Pollen tetrad development 8
b) Cytoplasmic reorganization during sporogenesis. 8

5. Write short notes on-
- a) Role of B.M. Johri in Embryology. 4
b) Placentation. 4
c) Sexual dimorphisms in plants. 4
d) Pollen embryo sacs. 4
