

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

P. Pages : 1

Time : Three Hours



GUG/W/23/15065

Max. Marks : 80

- 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 role of embryology in relation to taxonomy with suitable examples. 16

OR

Write notes on:

- a) Role of Maheshwari and Hofmeister. 8
- b) Natural and artificial vegetative reproduction in angiosperms. 8

2. Give detail account of development of flower in angiosperms. Add note on its basic structure. 16

OR

Write notes on:

- a) Position of floral leaves and symmetry. 8
- b) Placentation and its types. 8

3. What is inflorescence? Explain in detail types and its significance. 16

OR

Write notes on:

- a) Evolution of sexual dimorphisms in plants. 8
- b) Genetics of sexuality in dioecious plants. 8

4. Describe in detail molecular biology of meiosis in microsporogenesis. 16

OR

Write notes on:

- a) Types, structure and role of tapetum. 8
- b) Pollen embryo sac. 8

5. Write short notes on:

- a) S.G. Nawaschin. 4
- b) Cohesion of stamens. 4
- c) Unisexual flowers. 4
- d) Pollinia. 4
