

M.Sc. (Botany) Fourth Semester Old
BOT-15.2 - Paper-XV : Reproductive Biology of Angiosperms
(Special)-I

P. Pages : 1

Time : Three Hours



GUG/W/18/2362

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Illustrate your answers with suitable example.

1. Write an essay on anther. 16

OR

Write notes on :

- a) Adaptive significance of Pollen wall. 8
- b) Need for reproductive system as experimental material. 8

2. Write an essay on male gametophyte development. 16

OR

Write notes on :

- a) Role of mitochondrial genome in male sterility. 8
- b) Structural and developmental aspects of male sterility. 8

3. Write about ovule and its structural detail. 16

OR

Write notes on :

- a) Enzymatic isolation of embryo sac. 8
- b) Types of embryo sac. 8

4. What is pollination ? Write about pollination mechanism. 16

OR

Write notes on :

- a) Stigma-types and structure. 8
- b) Pollen germination and pollen tube growth. 8

5. Write short notes on : 4x4
=16

- a) Pollen wall proteins.
- b) Gametocides
- c) Pollen allelopathy
- d) Self incompatibility
