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M.Sc. (IVth Semester) Examination, 2020

BOTANY

(Reproductive Biology of Flowering Plants)

Time Allowed : Three Hours

Maximum Marks : 70

Note : Attempt any five questions of all the units. One

question from each unit is compulsory. Each

question have equal marks.

Unit–I

Q. 1. Describe the process of pattern formation and

growth during floral organogenesis. **14**

OR

Write a detail note on pollination regulator of

14

P.T.O.

flower development.

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(2)

Unit–II

Q. 2. Describe the process of embryogenic

development of pollen grains. 14

OR

Write notes on any two of the following : 7+7=14

- (a) Sperm dimorphism
- (b) Transformation of pollen
- (c) Megasporogenesis

Unit-III

Q. 3. Describe the mechanism of double fertilization in

the flowering plant.

OR

Write notes on any two of the followings : 7+7=14

14

(a) Structure of ovule

(3) (4) OR (b) Pollen tube guidance Write notes on any two of the followings : 7+7=14 (c) Pistil activation Unit-IV

14

14

P.T.O.

Q. 4. Write an overview note on plant-pollinator

interaction in detail.

OR

- Write notes on any two of the followings : 7+7=14
- (a) Floral display
- (b) Mating system
- (c) Ovule abortion

Unit-V

Q. 5. Describe the developmental biology and diversity

of fruit types.

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(a) Pattern of seed development

- (b) Embryo culture
- (c) Diversity of fruit types

100