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Roll No. ....

DD-773

**M. Sc. (Fourth Semester)  
EXAMINATION, 2020**

**BOTANY**

**Paper First**

**(Plant Reproduction and Utilization of Resources)**

*Time : Three Hours*

*Maximum Marks : 80*

**Note :** Question No. 1 is compulsory. Attempt all the five questions. All questions carry equal marks. Draw well labelled diagrams wherever necessary.

1. Write notes on the following :

- (a) Double Fertilization
- (b) Pollen development
- (c) Endospermic and Non-endospermic seed
- (d) Origin of Agriculture

**Unit—I**

2. What do you understand by self-incompatibility in plants ? Describe its various methods, types and significance.

*Or*

Write about the following :

- (a) Pollination and their mechanism
- (b) Pollen-Stigma interaction

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## Unit—II

3. Describe the structure of anther and microsporogenesis in Angiospermic plants.

*Or*

Write notes on the following :

- (a) Sperm dimorphism and hybrid seed production  
(b) Pollen embryo sac

## Unit—III

4. Describe the structure dynamics of fruit growth, biochemistry and biology of fruit maturation in Angiospermic plants.

*Or*

Write notes on the following :

- (a) Endosperm development  
(b) Embryoculture

## Unit—IV

5. Describe the ethnobotanical important plants of Chhattisgarh with their botanical names, family and utilizations.

*Or*

Write notes on the following :

- (a) World centers of primary diversity  
(b) Plants used as a pollution control and aesthetics