

Roll No.

Code No. : A04/4104

Fourth Semester Online Examination, August 2021

**M.Sc.
BOTANY
Paper I**

[Plant Reproduction and Utilization of Resources]

Time : Three Hours]

[Maximum Marks : 80

Note : Part A and B of each question in each unit consist of Very Short Answer Type Questions, which are to be answered in one or two sentences. Part C (Short Answer Type) and D (Long Answer Type) of each question should be answered within the word limit 200-250 and 400-450.

Unit – I

- | | | |
|--------|--------------------------|---|
| 1. (A) | What is Pollination ? | 2 |
| (B) | Define Fertilization. | 2 |
| (C) | Write a note on Rhizome. | 4 |

Or

Write Pollen Pistil Interaction.

- | | | |
|-----|---|----|
| (D) | What is micropropagation ? Describe technique of micropropagation and its importance. | 12 |
|-----|---|----|

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Or

Describe agents and types of cross pollination found in angiosperms.

Unit – II

2. (A) What is Tepatum ? 2
(B) What is Microsporangium ? 2
(C) Write note on structure of mature embryo-sac cells. 4

Or

Write note on Pollen allergy.

- (D) Describe the development of male gametophyte. 12

Or

Describe structure of ovule and development of megasporangium.

Unit – III

3. (A) Define polyembryony. 2
(B) What is Endosperm ? 2
(C) Write a note on Helobial type endosperm. 4

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Or

Write a note on fruit maturation .

- (D) Describe development of Dicot embryo. 12

Or

Describe development and types of endosperm.

Unit – IV

4. (A) Write botanical name and family of Saptparni. 2
(B) Write botanical name and family of Giloy. 2
(C) Write a note on Avenue tree Karanj. 4

Or

Write a note on aromatic medicinal plant Dauna.

- (D) Describe any ten Ethnobotanical plants of Chhattisgarh. 12

Or

Write an account on medicinal plants.

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