

Code No. : B04-104

Fourth Semester Online Examination, May-June, 2022

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 cleistogamy ? Give example of cleistogamous flower. 2
- (B) What is the significance of vegetative propagation ? 2
- (C) What are the conditions required for Entomophily ? 4

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Or

What is Double fertilization ? Write its significance.

- (D) What is self incompatibility ? Describe its different types. 12

Or

Explain the artificial methods of vegetative propagation with suitable examples.

Unit-II

2. (A) What is pollen allergy ? 2
- (B) What is megasporogenesis ? 2
- (C) Write note on pollen storage. 4

Or

Write about the different stages in the development of female gametophyte from megaspore.

- (D) Describe microgametogenesis. 12

Or

Write about the organization of mature embryo sac ? What are its different types ?

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Unit-III

3. (A) What is Apomixis ? 2
(B) What is 'Xenia' ? In which plant Xenia is reported? 2
(C) What is Endosperm ? Write about its morphological nature. 4

Or

Write about the dynamics of fruit growth and fruit maturation in brief.

- (D) What is embryogeny ? Describe the embryogeny of monocotyledonous plants. 12

Or

What is Polyembryony ? What are its different types ? Explain in brief.

Unit-IV

4. (A) Write botanical name and family of 'Sewanti'. 2
(B) Write the botanical name, family and medicinal importance of 'Kirayat'. 2
(C) Write a note on medicinal plant 'Gurmar'. 4

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Or

Write the botanical name, family and any two uses of "Lemon grass".

- (D) Write an account on plants used as Avenue trees for shade, pollution control and aesthetics. 12

Or

Describe any four ethnobotanical plants of Chhattisgarh.

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