

[4]

SECTION 'C' $4 \times 10 = 40$

Long Answer questions (Word limit 400-450 words.)

UNIT-I

Q. 1. Describe the sex determination in plants.

OR

Describe pollen development and germination.

UNIT-II

Q. 2. Describe Tetrasporic type of embryo sac in plants.

OR

Describe self in compatibility in plants.

UNIT-III

Q. 3. Describe the types of endosperms in plants.

OR

Describe embryo culture in plants.

UNIT-IV

Q. 4. Describe seed Dormancy in plants.

OR

Describe metabolic changes associated with senescence and its regulation.

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[1]

ROLL NO.....

BOT. 401/21

IV SEMESTER EXAMINATION, 2021

M.Sc. (BOTANY)

PAPER-I

PLANT REPRODUCTION

TIME: 3 HOURS

MAX.- 80

MIN.- 16

Note: The question paper consists of three sections A, B & C. All questions are compulsory.

Section A- Attempt all multiple choice questions.

Section B- Attempt one question from each unit.

Section C- Attempt one question from each unit.

SECTION 'A' $2 \times 8 = 16$

MCQ (Multiple Choice Questions)

1. Vegetative propagation by root Suckers found in -

- (a) Eagle mormilos - bel
- (b) Murraye Koenighi – Meethi Neem
- (c) Diospyros melonoxylon – Tendi
- (d) All a,b,c

2. Which of the following layer of another wall from the stomium -

- (a) Epidumis
- (b) Taptum
- (c) Endotheism
- (d) Middle layer

[2]

3. The bisporic 8 nucleate embryo Sac after is found in -
(a) Allism (b) Adoxa
(c) Polygonum (d) Plumbago
4. Secondary nucleus is -
(a) Haploid (b) Diploid
(c) Polyploid (d) Triploid
5. Ansiospermic endosperm is -
(a) Triploid (b) Haploid
(c) Tetraploid (d) Diploid
6. Dr. P. Maheshwari is known for the filed of -
(a) Taconomy (b) Embryology
(c) Cytology (d) Plant physiology
7. Hanning first carried out impart work in the field of Embryo culture in the year-
(a) 1804 (b) 1904
(c) 1950 (d) 2005
8. Calonodulin mediation is related to -
(a) Seed Dormancy (b) Seed Germination
(c) Seed Structure (d) Seed Formation

[3]

SECTION 'B' $4 \times 6 = 24$

Short Answer Type Questions (Word limit 200-250 words.)

UNIT-I

Q. 1. Short note on Development of Anther.

OR

Short note on pollen embryo Sac.

UNIT-II

Q. 2. Short note on Double fertilization and its significance.

OR

Note on Cron pollination in plants.

UNIT-III

Q. 3. Short note on moisae endosperm.

OR

Short note on Biochemistry of fruit notation.

UNIT-IV

Q. 4. Influence of Hormone on senescence- short note-

OR

Effects of enuhonmeted fastors on senescence.