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24-SE-43

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
JUNE - JULY 2024**

SEED TECHNOLOGY

Paper - III

[Nursery Management and Plant Propagation]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Describe the management of orchard in detail. (15 Marks)

OR

Explain the establishment and layout of Nursery. (15 Marks)

Q. 2 Explain the method of grafting with diagram. (15 Marks)

OR

Explain the method of budding with diagram. (15 Marks)

Q. 3 Define Totipotancy and write the history of plant tissue culture. (15 Marks)

OR

Write note on - (15 Marks)

i) Anther Culture.

ii) Nutrient Media.

Q. 4 Explain Terminator seed and write the advantage and disadvantages of Terminator Seed. (15 Marks)

OR

Describe Somatic Hybridization and its significance. (15 Marks)

Q. 5 Describe the concept and method of synthetic seed production. (15 Marks)

OR

Write note on - (15 Marks)

i) Cryopreservation.

ii) Film Coating and Pelleting.