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24-SE-24

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

SEED TECHNOLOGY

Paper - IV

[Seed Quality Testing]

[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 Give an account of objective and components of seed quality.

(15 Marks)

OR

Write notes on -

- i) Seed Sampling devices.
- ii) Methods of preparing composite samples.

Q. 2 What do you mean by Physical purity ? Give an account of methods of purity separation and working samples.

(15 Marks)

OR

- a) Seed purity standards.
- b) Determination of Weed Seeds.

Q. 3 Describe different types of seed dormancy and methods of breaking dormancy.

(15 Marks)

OR

Write notes on -

- i) Methods of Moisture estimation.
- ii) Seed germination requirements.

Q. 4 Write about principles and procedures of different methods used for testing vigor.

(15 Marks)

OR

P.T.O.

Write notes on -

- i) Preparation of Seed Solutions for viability.
- ii) Importance of Viability tests.

Q. 5 Write notes on **any two** -

(7½ + 7½ Marks)

- i) Criteria for genetic purity testing.
- ii) Roughing stages.
- iii) Significance of Seed health testing.
- iv) Agar Plate Method.

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