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24-SE-44

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

SEED TECHNOLOGY

Paper - IV

[Organic Farming and Soil Management]

[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 Write an illustrated account on vermicompost. (15 Marks)

OR

Write short note on -

- i) Organic Farming.
- ii) Rural Compost.
- iii) Green Manure.

Q. 2 What is Herbicide ? Briefly describe classification, uses and limitations. (15 Marks)

OR

Write in brief on -

- i) Crop - Weed Competition.
- ii) Organic product certification.

Q. 3 What is Soil ? Explain physical, chemical and biological properties of soil. (15 Marks)

OR

Write on following -

- i) Water Holding capacity and Porosity.
- ii) Soil Composition.

P.T.O.

Q. 4 What is Soil Water ? Explain causes of soil water loss and various methods to conserve it. (15 Marks)

OR

Write short note on -

- i) Water Shed Management.
- ii) Hydrogen cycle and its importance.

Q. 5 Write an illustrated account on Nitrogen Cycle. (15 Marks)

OR

Write in brief on -

- i) Essential elements for plant nutrition.
- ii) Decomposition of organic matter.

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