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25-MB-42

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
MAY - JUNE 2025**

MICROBIOLOGY

Paper - II

[Environmental Microbiology]

[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 all five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Describe bacterial disease transmitted through air and their preventive measures!

OR

Write note on -

- i) Droplet Nuclei
- ii) Air borne Viral Diseases

Q. 2 Discuss about Rhizosphere and Phyllosphere.

OR

Write note on -

- i) Mycorrhiza.
- ii) Phosphorus Cycle and Nitrogen Cycle.

Q. 3 Write Physical, Chemical and Biological Waste Treatments ?

OR

Write note on -

- i) Microbial assessment of water Quality.
- ii) Types and Characteristics of waste water

Q. 4 Explain Concept and production of microbial insecticides.

P.T.O.

OR

Write note on -

i) Biopolymer.

ii) Bioplastics.

Q. 5 Discuss about microbial enhancement of oil recovery ?

OR

Write note on -

i) Bioremediation.

ii) Control of Biodeterioration.

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