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24-MB-42

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

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

Q. 1 Describe various methods of assessment of air quality.

OR

Write explanatory notes on -

- i) Aerosols.
- ii) Air Borne Bacterial Diseases.

Q. 2 Explain positive and negative microbial interaction.

OR

Write short note on -

- i) Symbiotic and non - symbiotic nitrogen fixation.
- ii) Phosphate solubilizing bacteria.

Q. 3 Give detailed account of assessment of water quality in detail.

OR

Write short notes on -

- i) Water Borne Diseases.
- ii) Solid Waste Treatment.

Q. 4 Describe methods of Immobilization and application of enzymes in detail.

OR

P.T.O.

Write explanatory notes on -

- i) Biofertilizers.
- ii) Biosensors.

Q. 5 Describe in detail about the methods of bioleaching of metal.

OR

Write short notes on -

- i) Application of GMO in bioremediation.
- ii) Biodeterioration.

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