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MBH 551

IV Semester M.Sc. Degree Examination, September/October 2022
(CBCS-PG-CGPA)
MICROBIOLOGY
Agricultural Microbiology

Time : 3 Hours

Max. Marks : 70

I. Write short notes on **any five** of the following : **(5×3=15)**

- 1) Ozone depletion.
- 2) Phosphate solubilizers.
- 3) Physical properties of soil.
- 4) Soil horizons.
- 5) *Bacillus papillae*.
- 6) Acid rain.
- 7) Biomagnification.

II. Write a note on **any five** of the following : **(5×5=25)**

- 8) *Azospirillum*.
- 9) Global warming and Climate change.
- 10) Phytoremediation.
- 11) Biotransformation of metals.
- 12) Carbon cycle.
- 13) PGPR.
- 14) Plant viral diseases.

III. Answer **any three** of the following : **(3×10=30)**

- 15) Describe the role of fungi in bio-deterioration of wood.
 - 16) Describe the importance of Genetic Engineering in crop improvement.
 - 17) Explain the methods of qualitative and quantitative analysis of soil microflora.
 - 18) Give an account on symbiotic nitrogen fixation with an example.
 - 19) Write a detailed note on the role of Cyanobacteria in the field of agriculture.
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