PG Even Semester Exam, May 2025

Microbiology

4th Semester

COURSE NO. MBCC- 651

[Soil and Environmental Microbiology]

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, selecting one from each unit.

UNIT-I

1. Write notes on the following: 7x2=14

   a. Automated air sampler

   b. Impigement methods for air quality

2. Describe the diversity of microbes present in atmosphere. 14

UNIT-II

3. Explain the process of nodulation in legumes by rhizobia. How this interaction is useful for soil? 14

4. What are the different types of positive interactions among micororganisms? Explain with the help of examples. 14

Turn over

UNIT-III

5. What are biopesticided? Discuss the different types of micorbial biopesticides. 14

6. Write a detail note on Biopolymers. 14

UNIT-IV

7. Discuss the role of micorbes in marine ecosystem. 14

8. Explain the significance of microbes in waste water treatment process. 14

UNIT-V

9. Explain the different aspects of N-cycle. Also explain the role of microorganism in N-cycle. 14

10. Write a detail note on degradation of xenobiotics by microorganisms. 14

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2025/SEM/EVEN/09/27/MIB-651/317

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