

Environmental Microbiology

Course Outcome:

1. Remembering:

- Recall the basic characteristics and classification of microorganisms involved in environmental microbiology.
- Identify the key microbial interactions in various environmental processes such as nitrogen cycle and cellulose degradation.

2. Understanding:

- Explain the roles of microorganisms in environmental processes such as waste management, nitrogen cycling, and water treatment.
- Understand the mechanisms of microbial degradation of cellulose and its significance in the environment.

3. Applying:

- Apply knowledge of microbial interactions to predict the outcomes of various environmental processes.
- Utilize microbial techniques for solid waste management, liquid waste management, and treatment of drinking water to ensure environmental safety.

4. Analyzing:

- Analyze the complex relationships between microorganisms and their environment in various ecological systems.
- Evaluate the efficiency of microbial degradation processes in waste management and water treatment systems.

5. Evaluating:

- Critically assess the impact of microorganisms on the environment and human health.
- Assess the effectiveness of different microbial strategies in the management of solid and liquid waste, and the safety of drinking water.

6. Creating:

- Design innovative strategies using microorganisms for sustainable waste management and environmental remediation.
- Develop protocols for monitoring and improving the quality of drinking water using microbial techniques.

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