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(Printed Pages 3)

(20425)

Roll No.

B.Sc. (Micro.)-III yr.

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B.Sc. (Microbiology)

Examination, April-2025

Microbes in Environment

Biotechnology

(B-308)

B.Sc. (Micro.)

Time : Three Hours] [Maximum Marks : 50

Note : Attempt any **five** questions. **All** questions carry equal marks.

1. Define bioremediation. Describe in brief the microbial bioremediation and its applications. 10
2. Describe the role of microorganism in biodegradation of Xenobiotics including pesticides. 10

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3. What are synthetic pesticides? How it is different from biopesticides? Describe in brief some important commercial pesticides. 10
4. Discuss briefly : 10
 - (a) Solid waste management in India
 - (b) PGPM
5. What are the important acts and policies related to microbial pesticides in India. Discuss. 10
6. Write short notes on the following: 10
 - (a) Bio-accumulation
 - (b) Bio-mineralization
7. What are industrial effluents? Describe in brief a method of microbial management of industrial effluent. 10

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8. Describe the microbial decomposition of organic methods. 10
9. What are primary, secondary and tertiary sewage treatment what are microbial treatment problems. 10
10. Write a note on COD and BOD of sewage. 10