

B.Sc. Semester - 3 (NEP-2020) Examination

OCT/NOV-2025

**MIC: Microbiological Analysis of Air, Water & Soil to Pollution Control
(Skill Enhancement Course)****Time: 1:00 Hours****Marks:25****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 1) Explain how airborne viruses affect human health with one suitable example. (05)
- 2) Describe the impact of bioaerosols on environmental quality and ecosystem balance. (05)

OR

- Que.1 1) Explain the presumptive, confirmed, and completed tests used for detecting faecal coliforms. (05)
- 2) Describe the membrane filter technique for detecting microorganisms in water samples. (05)

- Que.2 1) Discuss the use of precipitation methods for controlling airborne particles. (05)
- 2) What is chemical disinfection and how does it inactivate microorganisms? (05)

OR

- Que.2 1) Describe the procedure for soil sample collection for microbiological analysis. (05)
- 2) Explain the importance of soil treatment in controlling soil-borne diseases. (05)
- Que.3 1) What is the role of HEPA filters in controlling airborne microorganisms? (05)

OR

- 1) Define water-borne pathogens and give two examples.
