

**2103000206021104**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**BACHELOR OF SCIENCE (SIXTH SEMESTER)**  
**BIO SCIENCE (MICROBIOLOGY) PAPER - IX**  
**(BS-604-ENVIRONMENTAL MICROBIOLOGY)**  
**-LEVEL 2**

[Time: As Per Schedule]

[Max. Marks:50]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

- a. Name of the Examination : **BACHELOR OF SCIENCE (SIXTH SEMESTER)**
  - b. Name of the Subject : **BIO SCIENCE (MICROBIOLOGY) PAPER - IX (BS-604-ENVIRONMENTAL MICROBIOLOGY) -LEVEL 2**
  - c. Subject Code No : **2103000206021104**
2. Sketch neat and labelled diagram wherever necessary.  
3. Figures to the right indicate full marks of the question.  
4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Multiple choice question: (MCQs)**

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1. Which of the following are the sources of water?
  - a. Stream
  - b. Deep well
  - c. Ponds
  - d. All
  
2. Coliforms can be detected by \_\_\_\_\_
  - a. SPC
  - b. DCT
  - c. MPN
  - d. None
  
3. The guidelines for drinking water quality standard recommended by WHO are \_\_\_\_\_
  - a. Acceptability aspects
  - b. Microbiological aspects
  - c. Chemical aspects
  - d. All
  
4. \_\_\_\_\_ is known as microbiological treatment
  - a. Primary treatment
  - b. Secondary treatment
  - c. Tertiary treatment
  - d. All



**Q.3** Write an essay on anaerobic sludge digestion.

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**OR**

**Answer of the followings question.**

1. Write a note on Wetland treatment.
2. Explain the techniques for the detection of coliforms from water.

**Q.4** Answer the following questions. (Any Two)

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1. Describe in brief types of Mycorrhizae.
2. Describe in detail nitrogen cycle and its significance in soil fertility.
3. Explain in detail microbial pesticide.

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