

2303000501016001
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (FIRST YEAR) (NCF-NEP)
(FIRST SEMESTER)
MAJOR-1-MICROBIOLOGY PAPER - I THEORY
(FUNDAMENTALS OF MICROBIOLOGY) - LEVEL 1

[Time: As Per Schedule]

[Max. Marks: 35]

Instructions:

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

- a. Name of the Examination : **BACHELOR OF SCIENCE (FIRST YEAR)(NCF-NEP)(FIRST SEMESTER)**
 - b. Name of the Subject : **MAJOR-1-MICROBIOLOGY PAPER - I THEORY (FUNDAMENTALS OF MICROBIOLOGY) - LEVEL 1**
 - c. Subject Code No : **2303000501016001**
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 Answer in short: Any 5

5

- a. What is microbial ecology?
- b. State two names of fungi.
- c. Enlist two organic acids produced by microbial fermentation.
- d. Give the specific contribution of Joseph Lister.
- e. Name the scientist associated with the use of anti toxin in immunization.
- f. State the importance of 'magic bullet'.

Q.2 Write short notes or brief answers on any 2 of the following:

10

- a. Comparison of the characteristics of Eubacteria and Archaeobacteria.
- b. Write a note on algae.
- c. Discuss: Woese's three kingdom system.

Q.3 Answer any 2 of the following:

10

- a. Write a note on 'food microbiology'
- b. Discuss Pasteur's experiments disproving spontaneous generation.
- c. Explain: The Koch's Postulates.

Q.4 Explain in short any 2 of the following:

10

- a. The development of Agricultural Microbiology.
- b. Explain antibody structure and diversity.
- c. Discuss important antimicrobial antibiotics used in chemotherapy.
