

Unit IV

8. Describe sewage composition and its disposal methods. 10
9. Write short notes on the following : $2 \times 5 = 10$
- (a) Food born infection
 - (b) Role of microorganisms in food industry.



34153

B. Sc. (NEP-2020) EXAMINATION, 2025

(Second Semester)

GENERAL MICROBIOLOGY

B23-BTY-201

Time : 3 Hours]

[Maximum Marks : 50

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) Phylogeny
- (b) Example of Acidic dye
- (c) Non-coliform
- (d) Fermentation
- (e) Bacteriophage
- (f) Selective media
- (g) Conjugation
- (h) Antimicrobial agent
- (i) Lyophilization
- (j) Sporulation.

10×1=10

Unit I

2. What is Staining ? Explain different methods of staining in microorganism. 10
3. Write short notes on the following : 2×5=10
 - (a) Contribution of any two scientists in microbiology
 - (b) Morphological classification of Bacteria.

Z-34153

2

Unit II

4. Write short notes on the following : 2×5=10
 - (a) Bacterial growth curve
 - (b) Preservation methods of microorganisms.
5. Write short notes on the following : 2×5=10
 - (a) Transformation
 - (b) Endospore formation in Bacteria.

Unit III

6. Define Sterilization. Explain physical and chemical method of sterilization. 10
7. Write short notes on the following : 2×5=10
 - (a) Lysogeny
 - (b) Difference between virus and bacteria.

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3

P.T.O.