No. of Printed Pages : 03	Roll No

34266

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

(Second Semester)

B24-BTY-201

General Microbiology

Time: 3 Hours [Maximum Marks: 35

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. Write short notes on the following: $1 \times 7 = 7$
 - (i) Lysogenic cycle
 - (ii) Fermented foods

(iii) Conjugation	Unit III
(iv) Growth curve	Explain the following: 7
(v) Fungi	(a) Lytic and lysogenic cycle
(vi) Acid fast staining	(b) Chemical control of microorganisms
(vii) Agar slants 7.	. Differentiate between viruses and microbial cell
Unit I	along with examples. 7
Discuss the Gram staining and endospore	Unit IV
staining of microorganisms. 7	. Elaborate the functions and types of soil
Discuss the contribution of Louis Pasteur,	microorganisms. 7
Edward Jenner and Robert Koch. 7	Write notes on the following: 7
Unit II	(a) Sewage composition and its disposal(b) Bacterial pollutants of water
Write a note on transformational and transduction mode of bacterial reproduction.7	****
Discuss the following: (a) Microbial nutrition (b) Isolation of microorganisms	

2

2.

3.

4.

5.

3