

B.Sc. Semester - 1 (NEP-2020) Examination**OCT/NOV-2025****BOT: Microbiology (Multidisciplinary Course)****Time: 2:00 Hours****Marks:50****Instructions:**

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

Que.1 Answer the following question shortly.(Each question carries 5-Marks) (10)

1. Write a brief note on prions.
2. Write a short note on general characters of virus.

OR

Que.1 Answer the following question shortly.(Each question carries 5-Marks)

1. Explain the structure of TMV.
2. Explain the lytic and lysogenic cycle of virus.

Que.2 Answer the following question shortly.(Each question carries 5-Marks) (10)

1. Discuss the role of viruses in vaccine production.
2. Describe the diseases caused by “Bunchy top of Banana”.

OR

Que.2 Answer the following question shortly.(Each question carries 5-Marks)

1. Describe the role of viruses in cancer control.
2. Write notes on: “ Leaf curl of papaya”.

Que.3 Answer the following question shortly.(Each question carries 5-Marks) (10)

1. What are mycoplasmas? Describe its structure.
2. Write a brief note: Asexual reproduction in bacteria.

OR

Que.3 Answer the following question shortly.(Each question carries 5-Marks)

1. Describe the process of Recombination in Bacteria.
2. Write a distinguishing feature of Archaeobacteria and Eubacteria.

Que.4 Answer the following question shortly.(Each question carries 5-Marks) (10)

1. Write a brief note on economic importance of bacteria.
2. Write a note on “Heterocyst”.

OR

Que.4 Answer the following question shortly.(Each question carries 5-Marks)

1. Discuss the role of cyanobacteria in nitrogen fixation.
2. Write note on: Endospores and Akinetes of Nostoc.

Que.5 Answer the following question shortly.(Each question carries 5-Marks) (10)

1. Explain the structure of Bacteriophage (T-phages).
2. Describe the diseases caused by “Mild mosaic of Potato”.

OR

Que.5 Answer the following question shortly.(Each question carries 5-Marks)

1. Describe the conjugation in Bacteria.
2. Write note on: General characteristics of cyanobacteria.
