

B.Sc. Semester - 1 (NEP-2020) Examination

OCT/NOV-2024

BOT: Microbiology (Major-1)

Time: 2:00 Hours

Marks: 50

Instructions:

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

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- Que-1 Answer the question. (Each question carries 5 marks) (10)**
1) Differentiate viruses with that of viroids.
2) Write a brief note on prions.
OR
- Que-1 Answer the following question shortly. (Each question carries 5 marks) (10)**
1) Write a brief note on TMV.
2) Explain the lytic and lysogenic cycle of virus.
- Que-2 Answer the following question shortly. (Each question carries 5 marks) (10)**
1) Explain the role of viruses in vaccine production.
2) Describe the diseases caused by Mild mosaic of potato.
OR
- Que-2 Answer the following question shortly. (Each question carries 5 marks) (10)**
1) Discuss the role of viruses in cancer control.
2) Describe the diseases caused by Leaf curl of papaya.
- Que-3 Answer the question. (Each question carries 5 marks) (10)**
1) Write a distinguishing feature of Archaeobacteria and Eubacteria.
2) What are mycoplasmas? Describe its structure.
OR
- Que-3 Answer the following question shortly. (Each question carries 5 marks) (10)**
1) Describe the vegetative and asexual reproduction in Bacteria.
2) Give the economic importance of mycoplasma.
- Que-4 Answer the question. (Each question carries 5 marks) (10)**
1) Write a note on "Heterocyst"
2) Explain the evolutionary significance of Prochloron.
OR
- Que-4 Answer the following question shortly. (Each question carries 5 marks) (10)**
1) State the economic importance of bacteria.
2) Write a note on nitrogen fixation by cyanobacteria.
- Que-5 Answer the following questions shortly. (5 marks for each question) (10)**
1) Give the general characters of viruses.
2) Write a note on virus and gene therapy.
OR
- Que-5 Answer the following questions shortly. (5 marks for each question) (10)**
1) Describe the conjugation in Bacteria.
2) Shortly discuss the chromatoplasm in cyanobacteria.
