

2103000203026003/2103001103030006
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (THIRD SEMESTER)
MICROBIOLOGY PAPER - VII
MB: 303 – VIROLOGY

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

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

- a. Name of the Examination : **BACHELOR OF SCIENCE (THIRD SEMESTER)**
- b. Name of the Subject : **MICROBIOLOGY PAPER - VII MB: 303 – VIROLOGY**
- c. Subject Code No : **2103000203026003/2103001103030006**

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 Give Specific Answer.

8

- a) Define provirus.
- b) What is teratogen.
- c) Differentiate between positive and negative strand of RNA.
- d) Give the full form of EBV and HPV.
- e) Assembly of animal virus like HIV occurs at which place in host cell?
- f) What are the components that can form the viral envelop?
- g) Give Examples of viruses that can be transmitted by arthropods.
- h) Enlist two RNA viruses that infect the animal cells.

Q.2 Answer the following: (Any Two)

14

- a) Emergence of new strains of influenza viruses can leads to pandemic.
- b) Explain: Satellites as virus like agent.
- c) Write a detailed note on structural features of viruses.

Q.3 Answer the following: (Any Two)

14

- a) Give two examples of insect virus and explain them in detail.
- b) Discuss lysogeny by means of replication of lambda phage.
- c) Explain the classification of major groups of negative sense RNA viruses.

Q.4 Answer the following: (Any Two)

14

- a) Write a note on human cancer viruses.
- b) Explain the maturation and release of animal virus after the synthesis of nucleic acid and proteins.
- c) Discuss in detail: origin of virus.
