



RAN-2403000503036001

S.Y.B.Sc. (Sem. - III) Examination November - 2025

Microbiology - Virology (Paper : MB - MJ - 303)

[Total Marks: 50

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) Figures to the right indicate full marks.
- (3) Draw neat & clean diagram wherever necessary.

Seat No.:

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Student's Signature

Q. 1. Short question answer (Any 10)

(10)

1. State the role of capsid.
2. Define host range of a virus.
3. Why viruses are considered as obligate intracellular parasites?
4. What is lethal dose (LD₅₀)?
5. Which viruses are responsible for Common cold?
6. Name one criterion used for the classification of viruses.
7. What is bacteriophage?
8. Define Prophage.
9. What does the term "burst time" mean?
10. Name the causative agent of bovine spongiform encephalopathy.
11. Which virus is linked with cervical cancer?
12. Define virion.

Q. 2. Explain in brief any two of the following

(10)

1. Explain the hypotheses regarding the origin of viruses.
2. Discuss the concept of host range and specificity with examples.
3. Describe the general characteristics of viruses.

Q. 3. Explain in brief any two of the following

(10)

1. Explain in brief about SARS-CoV-2.
2. Write a note on plaque assay and its applications.
3. Discuss about Emerging viruses with suitable examples.

Q. 4. Explain in brief any two of the following

(10)

1. Discuss lysogeny and its significance.
2. Explain the replication of animal viruses.
3. Write a note on latent viral infections with examples.

Q.5 Explain in brief any two of the following

(10)

1. Write a note on prions and their disease-causing mechanism.
 2. Explain the role of viruses in teratogenesis with examples.
 3. Describe plant viruses in detail.
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