

RAN-2403000503036001**S.Y.B.Sc. (Sem. - III) Examination March - 2026****Microbiology - MB-MJ-303 : Virology****[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.:

Student's Signature

SET - B**Q. 1. Short question answer (Any 10)****10**

1. What are viruses?
2. State one role of capsid.
3. What is an envelope?
4. What is meant by Plaque?
5. What type of genetic material is present in SARS-CoV-2?
6. Write a full form of PFU.
7. Name a virus that infects only bacteria.
8. Give one example of a retrovirus.
9. What does the term "burst size" mean?
10. Name one oncogenic virus.
11. Define: Satellite.
12. Expand HTLV

Q. 2. Explain in brief any two of the following**10**

1. Explain different hypothesis regarding the origin of viruses.
2. Discuss different components of viruses.
3. Comment on: Host range and specificity of viruses.

Q. 3. Explain in brief any two of the following**10**

1. Explain enumeration of viruses in detail.
2. Write a note on: DNA viruses
3. Comment on: Emerging viruses with suitable examples.

Q. 4. Explain in brief any two of the following**10**

1. Discuss latent viral infection with example.
2. Explain replication of T-even phage.
3. Describe lysogenic conversion and its significance.

Q. 5. Explain in brief any two of the following**10**

1. Explain about viruses of fungi and protists.
2. Discuss the association between viruses and cancer.
3. Describe prions in detail.