

QP Code: 201385

Reg. No.....

**Second Year M.Sc. MLT Degree Regular/Supplementary Examinations
July 2025
(Microbiology)
Paper V - Medical Virology**

Time: 3 hrs.

Max. marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays:

(10x10=100)

1. Describe tissue culture methods of viral isolation and detection of virus growth in tissue cultures.
2. Enumerate the blood borne viruses. Describe the management of needle stick injury and post exposure prophylaxis (PEP) for HIV.
3. Enumerate the viruses causing upper respiratory tract infection. Describe the pathogenesis laboratory diagnosis and prophylaxis of Influenza virus.
4. Describe the pathogenesis, laboratory diagnosis and prophylaxis of Rabies virus.
5. Enumerate the emerging and re-emerging viral infections in India. Explain pathogenesis, epidemiology and laboratory diagnosis of Nipah virus.
6. Human prion diseases.
7. Classify Bio-safety levels and write a note on setting up of Biosafety level 3 virology laboratory with a diagram.
8. Write an essay on the application of molecular techniques in diagnosis of viral infections with examples.
9. Discuss congenital viral infections with laboratory diagnosis.
10. Classify arboviruses prevalent in India. Discuss pathogenesis, laboratory diagnosis and prophylaxis of dengue.
