

Final Year B.Sc MLT Degree Regular/Supplementary Examinations
March 2025
Mycology, Virology & Applied Microbiology

Time: 3 Hours

Total 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 table/diagrams/flow charts wherever necessary

Essay**(2x10=20)**

1. Enumerate four viral agents of Sexually transmitted infections. Explain in detail the pathogenesis and laboratory diagnosis of HIV. (4+3+3)
2. Name two arboviral infections prevalent in our state. Discuss the laboratory diagnosis of Dengue virus infection and steps to prevent this infection. (2+5+3)

Short notes**(10x5=50)**

3. Cell culture.
4. Dematiaceous fungi.
5. Eumycotic Mycetoma.
6. Opportunistic viral diseases.
7. Influenza virus.
8. Quality control in Microbiology laboratory.
9. Candida albicans.
10. PCR and applications.
11. Aspergillosis.
12. Viral vaccines.

Answer briefly**(10x3=30)**

13. Structure of Rabies virus.
14. Fungal stains.
15. Microbial biofilm.
16. Eijkman test.
17. Zygomycosis.
18. Reproduction in Fungi.
19. Nosocomial infections.
20. Three causes of Viral Pneumonia.
21. Human papilloma virus.
22. Testing of milk samples.
