

QP CODE: 402012

Reg. No:.....

**Final Year B.Sc MLT Degree Regular/Supplementary Examinations
May 2022**

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. Describe in detail the collection, transport and processing of blood for culture. Add a note on automated blood culture methods in microbiology laboratory (7+3)
2. Describe the structure of HIV virus. Describe the laboratory diagnosis of HIV infection. (3+7)

Short notes

(10x5=50)

3. Enumerate the methods of antifungal susceptibility testing.
4. Cryptococcus neoformans.
5. Ventilator associated pneumonia.
6. Collection and transport of urine for urine culture
7. Lab diagnosis of dengue fever
8. Egg inoculation for diagnosis of viral diseases
9. Presumptive coliform count
10. Methicillin-Resistant Staphylococcus Aureus (MRSA)
11. Lab diagnosis of H₁N₁ influenza
12. Subcutaneous mycosis

Answer briefly

(10x3=30)

13. Name four diarrheagenic viruses
14. Antinuclear antibody test.
15. Immunofluorescence
16. Mucormycosis
17. Milk ring test
18. Latex agglutination test
19. Steps of Polymerase Chain Reactions (PCR)
20. Slide culture technique for fungal identification.
21. Actinomycosis
22. Detection of virus growth in cell culture
