

QP CODE: 402012

Reg No:.....

Final Year B.Sc MLT Degree Supplementary Examinations January 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. Name the infections transmitted through milk. Describe sample collection and processing of milk for bacteriological examination. (2+8)
2. Name four organisms causing wound infection. Describe the laboratory methods for diagnosing staphylococcal post-operative wound infections. (2+8)

Short notes

(10x5=50)

3. Laboratory diagnosis of candidiasis.
4. Mycetoma.
5. Fungal infections of eye.
6. Viral inclusion bodies.
7. Haemagglutination inhibition test.
8. Epstein bar virus and its laboratory diagnosis.
9. Steps involved in viral replication.
10. Define and classify interferons and mention its mechanism of action.
11. Immunoblotting techniques.
12. Recent molecular methods for microbial identification.

Answer briefly

(10x3=30)

13. Antigenic shift and drift.
14. Hepatitis A virus.
15. Rapid tests for diagnosing HIV infection.
16. Oncogenic DNA viruses.
17. Rhinosporidium.
18. Piedra.
19. Mycotic poisoning.
20. Eijkman's test.
21. Rose waaler test.
22. Methods for detecting contamination of air in operation theaters.
