

**QP CODE: 402012**

**Reg. No:.....**

**Final Year B.Sc MLT Degree Supplementary Examinations October 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. Enumerate four Nosocomial Infections. Describe the collection, transport and processing of specimens for diagnosing any one of them. (2+8)
2. List hepatitis viruses. Describe in detail, the laboratory diagnosis and prophylaxis of Hepatitis B virus (HBV) infection (2+6+2)

**Short notes**

**(10x5=50)**

3. Principles of immune blotting technique.
4. Presumptive coliform count
5. Candidiasis: etiology and lab diagnosis
6. Latex agglutination tests
7. Cartridge Based Nucleic Acid Amplification Test (CB-NAAT, GeneXpert,)
8. Tissue culture techniques for virus isolation.
9. Sporotrichosis
10. Viral hemorrhagic fever
11. Automated blood culture methods
12. Ophthalmic fungal infections

**Answer briefly**

**(10x3=30)**

13. Enumerate three pathogens transmitted by infected milk and milk products.
14. Histoplasma capsulatum
15. Mycotoxins
16. Enumerate four diarrhoeagenic viruses
17. Paul Bunnell test.
18. Varicella zoster virus
19. Enumerate staining methods used for identifying fungal infections.
20. Methylene blue and phosphatase test.
21. Zika Virus.
22. Chemiluminescence immunoassay.

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