

**QP CODE: 402012**

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

**Final Year B.Sc MLT Degree Supplementary Examinations February 2020**

**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. What are dimorphic fungi. Describe in brief three dimorphic fungi causing infections in humans. Discuss laboratory diagnosis of dimorphic fungal infection. (2+4+4)
2. Name the viruses causing hepatitis. Describe the morphology, mode of transmission and laboratory diagnosis of Hepatitis B infection (1+9)

**Short notes**

**(10x5=50)**

3. Subcutaneous mycosis
4. Dengue virus infection
5. Rhinosporidiosis
6. Identification of *C. albicans*
7. Kyasanur Forest disease
8. Laboratory diagnosis of HIV (Human Immunodeficiency Virus)
9. Describe the methods of cultivation and isolation of viruses.
10. Examination of milk and milk products.
11. Microbiological evaluation of air in operation theaters.
12. Catheter-Related Bloodstream Infection (CRBSI)

**Answer briefly**

**(10x3=30)**

13. Enumerate three air borne pathogens.
14. Indicator organisms used in water bacteriology
15. C-Reactive protein
16. Five bacteria causing UTI
17. Bacteria causing food poisoning
18. Mention three mechanism of drug resistance.
19. Inclusion bodies
20. Viral haemagglutination tests
21. Preparation of lactophenol cotton blue stain.
22. Germ tube test for yeast identification

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