

**Third Year B.Sc MLT Degree Supplementary Examinations January 2022  
Bacteriology**

**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 four bacteria causing meningitis. Discuss in detail the laboratory diagnosis of meningitis (sample collection, transport and processing of specimens). (2+8)
2. Enumerate four bacteria causing eye infections. Discuss the sample collection, transport and processing for laboratory diagnosis of eye infections. (2+8)

**Short notes**

**(10x5=50)**

3. Halophilic vibrios.
4. Laboratory diagnosis of food poisoning.
5. Brucellosis
6. Gonorrhoea.
7. Toxins and enzymes of staphylococci
8. Laboratory diagnosis of pulmonary tuberculosis.
9. Diarrheagenic E.coli
10. Laboratory diagnosis of anthrax
11. Nocardia
12. Yersinia pestis

**Answer briefly**

**(10x3=30)**

13. E-test.
14. Collection and transport of urine from an adult male patient.
15. Processing of throat swab.
16. TPHA.
17. Cold agglutination.
18. Scrub typhus
19. Bacteroides fragilis
20. CAMP
21. Penicillin
22. Beta lactamase detection