

QP Code: 102385

Reg. No.....

**First Year M.Sc. MLT Degree Supplementary Examinations March 2024  
(Microbiology)**

**Paper II - Systematic and Diagnostic Bacteriology**

Time: 3 hrs.

Max. 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*

**Essays:**

**(10x10=100)**

1. Write in detail about the virulence factors of *staphylococcus aureus*. Describe the laboratory diagnosis of staphylococcal infections.
2. Classify rickettsial diseases. Write in detail about laboratory diagnosis of rickettsial infections.
3. Classify spirochetes. Write in detail about laboratory diagnosis of leptospirosis.
4. *Burkholderia pseudomallei*.
5. Group B streptococci.
6. Write in detail about the pathogenesis and laboratory diagnosis of human anthrax.
7. Classify mycobacteria. Write in detail about the laboratory diagnosis of pulmonary tuberculosis.
8. Enumerate antigens and serotypes of shigella. Write in detail about the laboratory diagnosis of shigellosis.
9. Halophilic vibrios.
10. Specific tests for syphilis.

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