

QP Code: 102385

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations
July 2025
(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. Describe the pathogenesis and laboratory diagnosis of leptospirosis.
2. Bacillus anthracis.
3. Describe the pathogenesis and laboratory diagnosis of Meningococci.
4. Explain the pathogenesis and laboratory diagnosis of Mycoplasmal pneumonia.
5. Classification and laboratory diagnosis of leprosy.
6. Discuss the etiology, pathogenesis, clinical types and laboratory diagnosis of Plague.
7. Define Pyrexia of Unknown Origin (PUO). Enumerate the causes for PUO. Describe the laboratory diagnosis of Enteric fever.
8. Aetiology, pathogenesis and laboratory diagnosis of gas gangrene.
9. Shigellosis-pathogenesis and laboratory diagnosis.
10. Discuss antibiotic resistance mechanisms and add note on detection of Beta-lactamases.
