

QP Code: 102385

Reg . No.....

**First Year M.Sc. MLT Degree Supplementary Examinations  
December 2020  
(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 pneumococcal meningitis.
2. Describe the tests for Minimum Inhibitory Concentration (MIC) and Minimum Bactericidal Concentration (MBC) determination.
3. Enumerate the non sporing anaerobic bacteria. Discuss the infections caused by them and describe the laboratory diagnosis.
4. Describe the pathogenesis and laboratory diagnosis of vibrio cholera.
5. List the organisms causing bacillary dysentery. Discuss in detail the laboratory diagnosis of bacillary dysentery.
6. Describe the pathogenesis and laboratory diagnosis of Burkholderia pseudomallei.
7. Discuss the pathogenesis and laboratory diagnosis of corynebacterium diphtheriae.
8. Classify Mycobacteria. Describe in detail the laboratory diagnosis of pulmonary tuberculosis. Add a note on drug resistance in tuberculosis.
9. Describe the pathogenesis and laboratory diagnosis of leptospirosis.
10. Classify rickettsiae. Discuss in detail about scrub typhus.

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