

QP Code: 102385

Reg . No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations
April 2021
(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 gonorrhoea. Add a note on Penicillinase Producing Neisseria Gonorrhoeae (PPNG).
2. Describe the methods for identification of Methicillin Resistant Staphylococcus Aureus (MRSA). Add a note on the prevention of MRSA in hospital.
3. Enumerate the virulence factors and describe in detail the laboratory diagnosis of Streptococcus pyogenes. Add a note on the non suppurative complications.
4. Describe in detail the laboratory diagnosis of syphilis.
5. List the organisms causing gas gangrene. Discuss in detail the pathogenesis and laboratory diagnosis of gas gangrene.
6. Describe the pathogenesis and laboratory diagnosis of enteric fever.
7. Discuss the infections caused, pathogenesis and laboratory diagnosis of Actinomyces.
8. Discuss the methods of specimen collection, transport and processing in diagnosis of urinary tract infections.
9. List the medically important nonfermenters. Describe in detail the laboratory diagnosis of Acinetobacter baumannii. Add a note on its importance in hospital acquired infections.
10. Explain Extended Spectrum Beta Lactamases (ESBL). Discuss in detail the different methods to detect ESBLs in diagnostic laboratory.
