

QP Code: 102385

Reg. No.....

**First Year M.Sc. MLT Degree Examinations November 2018
(Microbiology)**

Paper II - Systematic and Diagnostic Bacteriology

Time: 3 hrs.

Max. marks: 100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays:

(10x10=100)

1. Describe the infections caused by Rickettsiae and elaborate on laboratory diagnosis of Rickettsial infections.
2. Discuss the etiology, pathogenesis and laboratory diagnosis of syphilis.
3. Describe the virulence factors of staphylococcus aureus and explain the method of sample processing for the diagnosis of staphylococcal infection.
4. Explain the mode of transmission, pathogenesis and laboratory diagnosis of gonorrhoea
5. Describe the morphology of corynebacterium diphtheriae. Explain the pathogenesis and laboratory diagnosis of diphtheria.
6. Describe in detail about cultural characteristics and antigenic properties and the laboratory diagnosis of haemophilus influenzae.
7. List the features of family enterobacteriaceae. Describe the diagnosis of gastrointestinal infection caused by E.coli.
8. Mention the diseases caused by Burkholderia species. Explain the pathogenesis and laboratory diagnosis.
9. Mention the source of helicobacter pylori. Discuss the pathogenesis and laboratory diagnosis of H. pylori infection.
10. Define tetanus. Explain the pathogenesis and laboratory diagnosis of tetanus.
