

QP Code : 101385

Reg . No.....

**First Year M.Sc. MLT Degree Examinations – October 2014
(Microbiology)**

PAPER – I GENERAL MICROBIOLOGY

Time : 3 hrs.

Max. marks : 100

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

Essays:

(10x10 = 100)

1. Describe the structure of bacterial cell wall and capsule in detail.
2. Describe the principle, structure, applications and quality checks for hot-air oven.
3. Enumerate and describe briefly the safety measures to be taken in microbiology laboratory.
4. Acid fast staining- Principle, modifications and applications.
5. Enumerate and describe briefly the virulent factors of bacteria.
6. Describe the rapid and automated methods for bacterial identification.
7. Discuss the genetic mechanism of drug resistance in bacteria.
8. Describe the media used, principle and quality controls used for performing urease test and citrate test.
9. Classification and applications of gaseous and radiation methods of sterilization.
10. Describe the structure of a bacterial spore and steps in sporulation.
