

QP Code: 101385

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations
July 2025
(Microbiology)
Paper I - General Microbiology**

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. What is disinfection. Classify disinfectants. Explain plasma sterilization. (2+3+5)
2. Discuss the growth requirements of bacteria. Add a note on bacterial growth factors. (7+3)
3. Regulation of gene expression in bacteria.
4. Dark field microscope-principle, parts, applications. (2+6+2)
5. Describe enrichment media with examples.
6. Principle, different methods and applications of oxidase test. (2+6+2)
7. Bacterial capsule.
8. Isolation of pure cultures of bacteria.
9. Enumerate the dry heat sterilization methods. Describe the principle, parts, working, applications and quality control of a hot air oven. (2+8)
10. Lysine iron agar.
