

**QP Code: 101385**

**Reg. No.....**

**First Year M.Sc. MLT Degree Supplementary Examinations January 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. Commercial Biochemical identification systems for Bacteria.
2. Triple Sugar Iron Agar: Principle, composition and interpretation with examples.
3. Cystine Lactose Electrolyte Deficient (CLED) Agar: Principle, composition and interpretation with examples.
4. Explain bacterial growth curve. Add a note on methods of quantitation of bacterial growth. (7+3)
5. Write a note on electron microscopy
6. Spaulding classification of medical devices.
7. Describe bacterial flagella. Describe briefly the different methods to identify bacterial motility.
8. Recent advances in anaerobic cultivation methods.
9. Explain gene transfer in bacteria.
10. Enumerate methods of moist heat sterilisation. Discuss the principle, working, uses and quality control of laboratory autoclave. (3+7)

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