

QP Code: 101385

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations**  
**August 2022**  
**(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. Describe the structure of bacterial spore and steps in sporulation. Write a note on sporicidal agents.
2. Describe the principle, working, applications and quality control of autoclave in hospital setting.
3. Biomedical waste management.
4. Discuss methods for bacterial quantification.
5. Commonly used enriched culture media- preparation, uses and quality control.
6. Dark ground microscopy- principle and uses.
7. Describe the enzyme based biochemical tests in diagnostic Microbiology.
8. Describe the Flagellar staining methods.
9. Transposons.
10. Classify bacteria on growth requirements and describe in detail about bacterial growth curve.

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