

QP Code: 101385

Reg. No.....

**First Year M.Sc. MLT Degree Supplementary Examinations January 2023
(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. Draw and label bacterial spore. Describe in detail about the steps in sporulation, staining methods and applications of bacterial spore. Add a note on sporicidal agents.
2. Anaerobic culture methods and its control.
3. Parts, uses and care of light microscope
4. Acid fast staining – principle, modifications and its uses.
5. Cold sterilization.
6. Hot air oven - principle, parts, functioning, uses and control.
7. Describe in detail the tests for carbohydrate metabolism.
8. Mutation.
9. Bacterial preservation methods.
10. Standard work precautions.
