QP Code: 101385 Reg. No......

## First Year M.Sc. MLT Degree Regular/Supplementary Examinations August 2024 (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)

- Electron Microscope and its applications in Diagnostic
   microbiology. (7+3)
- 2. Discuss about methods for preservation of bacteria
- 3. Describe the tests for metabolism of carbohydrates in diagnostic microbiology.
- 4. Describe the structure of bacterial spores. Explain the steps of sporulation. Add a note on demonstration of spores. (2+4+4)
- 5. Thiosulfate-citrate-bile salts-sucrose (TCBS) agar: Principle, composition and interpretation with examples.
- 6. Classify culture media. Add a note on enrichment and transport media. (2+4+4)
- 7. What are F factor and R factor. Explain bacterial conjugation in detail. (3+7)
- 8. Briefly describe Koch's postulates with examples.
- 9. Discuss sporicidal disinfectants and testing of disinfectants. (7+3)
- 10. Biosafety cabinets: Types, specifications and uses. Add a note on bioterrorism agents.

(8+2)

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