QP CODE: 202012	Reg No:

## Second Year B.Sc MLT Degree Regular/Supplementary Examinations May 2021

## **General Microbiology**

Time: 3 Hours Total 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 Diagrams wherever necessary.

Essay (2x10=20)

- 1. Define bacterial growth curve. Explain the different phases of it. (2+8)
- 2. Enumerate the tests used for the detection of bacterial enzymes. Explain any two. (2+8)

Short notes (10x5=50)

- 3. Bacteriophage typing.
- 4. Colony morphology on plated media.
- 5. Transduction.
- 6. Robertson's cooked meat medium.
- 7. Collection of blood from mouse.
- 8. Triple sugar iron agar medium.
- 9. Germ free animals.
- 10. Indole test.
- 11. Viable count of bacteria.
- 12. Operon model of gene expression

Answer briefly (10x3=30)

- 13. Methyl red test.
- 14. Tellurite blood agar medium.
- 15. Gelatin liquefaction test.
- 16. Quality control of Mac Conkey's agar medium.
- 17. Alkaline peptone water.
- 18. 'R' factor.
- 19. Agar agar.
- 20. Influence of carbon dioxide upon bacterial growth.
- 21. Sterilization of culture media.
- 22. Name three pH indicators and their pH range

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