

**Second Year B.Sc MLT Degree Supplementary Examinations  
September 2023**

**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. Enumerate four tests for detecting enzymes of bacteria. Describe in detail any two of them. (4+6)
2. Define obligate anaerobes with examples. Describes how the samples should be transported for anaerobic culture. Describe methods of anaerobic culture. (2+3+5)

**Short notes**

**(10x5=50)**

3. Bacteriocin typing
4. Enrichment media
5. Quantitation of bacteria
6. Plasmids
7. Rabbit as a laboratory animal
8. Quality control in media preparation
9. Lowenstein Jensen Media.
10. Lysogenic conversion
11. Citrate utilization test
12. Lysine iron agar

**Answer briefly**

**(10x3=30)**

13. Capnophilic bacteria.
14. MacConkey's agar
15. Lyophilization
16. Potassium tellurite agar
17. Nude mouse
18. Transport media
19. Bacterial Cell count.
20. Motility test media
21. Pour plate cultures
22. Euthanasia