

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations
January 2024**

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. Describe four tests for detecting carbohydrate metabolism by bacteria. Describe in detail any two of them. (4+6)
2. Define selective media. Enumerate four selective media. Describe in detail two selective media. (1+3+6)

Short notes

(10x5=50)

3. Bacterial classification
4. Typing methods of bacteria.
5. Anaerobic work station
6. Lovibond comparator box.
7. Guinea pig as a laboratory animal
8. Different types of inoculation methods
9. Transduction
10. IMViC tests
11. Colony characteristics in solid media
12. Mutation

Answer briefly

(10x3=30)

13. Thermophilic bacteria
14. Phenyl pyruvic acid test
15. Oxidase test
16. Facultative anaerobes
17. Xylose Lysine Deoxycholate (XLD) Agar
18. Transport media.
19. Infant suckling mouse
20. Bacterial growth curve
21. Thermal death point
22. Slide coagulase test.