

**Second Year B.Sc MLT Degree Supplementary Examinations
January 2022**

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 the tests based on metabolism of carbohydrates. Describe any two tests. (2+8)
2. Describe in detail about the various techniques used to provide anaerobic conditions.

Short notes

(10x5=50)

3. Continuous culture.
4. Lowenstein Jenson medium.
5. Detection of bacterial mutants.
6. Differential medium.
7. Euthanasia.
8. Motility test media.
9. Oxidase test.
10. Blood agar medium and its modifications.
11. Rabbit.
12. Lac operon

Answer briefly

(10x3=30)

13. Slide coagulase test.
14. Detection of hydrogen sulfide.
15. Lab lemco.
16. Routes of inoculation in mice.
17. Phenyl pyruvic acid test.
18. Mesophilic bacteria.
19. Cary-Blair medium.
20. Uses of nutrient agar medium.
21. Standard opacity tubes.
22. Ehrlich's reagent