

**Second Year B.Sc MLT Degree Supplementary Examinations
November 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. Define anaerobiasis. Discuss the various methods used for obtaining anaerobiasis. (1+9)
2. Describe the feeding, housing, breeding, care and uses of any two laboratory animals.

Short notes

(10x5=50)

3. Detection and isolation of bacterial mutants
4. Bacteriophages and their typing methods
5. Transport media
6. Bacterial growth curve
7. Rapid biochemical tests
8. Bacterial conjugation
9. Enriched media
10. Nitrate reduction test
11. Differential media
12. Humane methods of killing experimental animals

Answer briefly

(10x3=30)

13. Gelatin liquefaction test
14. Bacterial growth factors
15. Standard bacterial loop
16. Opacity tubes of Mc Farland standard
17. Buffered glycerol saline
18. Precautions for doing catalase test
19. Alkaline peptone water
20. Morphology of bacterial colonies
21. Simmons citrate media
22. Sterilization of petridishes