

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations  
January 2025**

**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. What are the different types of culture media. Define differential media. Describe in detail any two differential media. (3+1+6)
2. What are the different routes of inoculation in animals. Describe in detail about any three routes of inoculation. (4+6)

**Short notes**

**(10x5=50)**

3. Growth characteristics of bacteria in liquid medium
4. Rabbit as a lab animal
5. Bacteriophage and phage typing
6. Different methods of pH adjustments.
7. Conjugation
8. Rapid identification tests
9. Coagulase test.
10. Mc Farland standard
11. Continuous culture
12. Sugar media

**Answer briefly**

**(10x3=30)**

13. Mesophilic bacteria
14. Triple sugar iron test
15. Catalase test
16. Pour plate culture method
17. Lowenstein- Jensen Medium
18. Potassium tellurite agar
19. Viable count
20. Disposal of dead animals
21. Standard bacterial loop
22. Deoxycholate citrate agar