

QP CODE: 202012

Reg. No:.....

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations
December 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. Explain bacterial growth curve with the help of a diagram. Explain in detail the different phases of the growth curve. (2+8)
2. Name four tests for detection of protein metabolism in bacteria. Describe any two in detail. (2+8)

Short notes

(10x5=50)

3. Classification of bacteria
4. Operon model of gene regulation
5. Lovibond comparator
6. Rabbit as a laboratory animal
7. Rapid identification tests for bacteria
8. Continuous culture
9. Viable count of bacteria
10. Spectrophotometer
11. Lysogenic conversion
12. pH indicator solutions

Answer briefly

(10x3=30)

13. Lyophilisation
14. Citrate utilisation test
15. Pour plate culture
16. Robertson cooked meat medium
17. Euthanasia
18. Layered blood agar medium
19. Standardisation of bacterial loop
20. Chocolate agar
21. Nitrate reduction test
22. Nude mouse

CORRECTION / NO-CORRECTION FILE
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QPCODE: 202012

Dated: 03-12-2025

Question No. 10

Replaced with "Spectrophotometric method of quantitation of bacteria."

Question No. 13

Replaced with "Bacteriocin typing."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS