

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations
May 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 and classify culture media with examples. Discuss transport media. (1+4+5)
2. With the help of diagram describe bacterial growth curve. Explain the morphological and other characteristics of bacteria in each phase. (2+8)

Short notes

(10x5=50)

3. Laboratory mouse
4. Methods of inoculation of different types of culture media
5. Indole test
6. Triple sugar iron agar
7. Operon model of gene regulation
8. Bacterial plasmids
9. Selective media for enteric pathogens
10. Urease test
11. Egg containing media
12. Physical conditions required for bacterial growth

Answer briefly

(10x3=30)

13. High frequency recombination
14. Layered blood agar medium
15. Three uses of peptone water
16. Bacteriocins
17. OF Test
18. Collection of blood sample from rabbit
19. Mention three tests for bacterial enzymes
20. Anaerobic cabinets
21. Cystine lactose electrolyte deficient agar
22. Thioglycollate broth