

Second Year B.Sc MLT Degree Examinations, October 2014

GENERAL MICROBIOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay **(2x10=20)**

1. Classify media used in microbiology laboratory and describe them in detail. (2+8 =10)
2. Enumerate the bacterial enzymes used for the identification of bacteria.
Discuss in detail any three tests to detect them. (2+8 =10)

Short notes **(10x5=50)**

3. Bacterial growth curve
4. Housing and breeding of animals
5. Bacterial loop
6. Anaerobic culture methods
7. Quantitation of micro organisms by spectrophotometer
8. OF test
9. Lysogenic conversion
10. Rapid identification tests
11. Bacteriophage typing methods
12. Transposable genetic elements

Answer briefly **(10x3=30)**

13. Phylogenetic classification of bacteria
14. Shake cultures
15. Agar strands
16. Suckling mice
17. Simple sugar media
18. Sterilization of Lowenstein- Jensen media
19. Thermal death point
20. Sweep plate method
21. Chocolate agar
22. Lac operon