

Second Year B.Sc MLT Degree Examinations, October 2013

GENERAL MICROBIOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Enumerate the different gene transfer methods. Explain any one method in detail and mention its application (4+6=10)
2. Name the different tests done for detection of protein and amino acid metabolism in bacteria. Describe in detail each one of them. (2+8=10)

Short notes

(10x5=50)

3. pH adjustments
4. Indicator media.
5. Bacteriophage and typing method
6. Infant suckling mice.
7. Solid media without agar.
8. Blood culture media.
9. Incubation method
10. Anaerobic culture methods
11. Test for enzymes
12. Rapid identification tests

Answer briefly

(10x3=30)

13. Nutrient agar.
14. Mc Farland standard
15. Transposons.
16. Mutation
17. Phenotypic variation
18. Robertson's cooked meat medium.
19. Bleeding of animals
20. Viable bacterial count.
21. Sugar media.
22. Streak culture.