

QP CODE: 202012

Reg No:.....

Second Year B.Sc - MLT Degree Examinations, October 2012

GENERAL MICROBIOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Enumerate tests for metabolism of carbohydrates and related compounds.
Discuss in detail. (2+8=10)
2. Define mutation. Describe the types of mutation and methods of isolation of mutants (2+8=10)

Short notes

(10x5=50)

3. Bacterial classification
4. Methods to determine the total count of bacteria
5. Anaerobic cabinets
6. Simple opacity standards
7. Gnotobiotic animals
8. Epidemiological typing methods
9. Solidifying agents used in culture media
10. Transduction
11. Anesthesia used for experimental animals
12. Gelatin liquefaction

Answer briefly

(10x3=30)

13. pH indicator dyes
14. Pour plate cultures
15. Lowenstein-Jensen medium
16. Transport media
17. Photoelectric colorimeter
18. Phenylalanine deaminase test
19. Routes of inoculation in mice
20. Mesophilic bacteria
21. Animal house
22. Tellurite blood agar
