

First B.Sc (MLT) Degree Supplementary Examinations, May 2012

BASIC MICROBIOLOGY & IMMUNOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay (2x10=20)

1. Draw a bacterial cell and describe the functions of each structure. Describe the difference between gram positive and gram negative bacteria (2+4+4=10)
2. Define and classify immunity. Describe acquired immunity (2+4+4=10)

Short notes (10x5=50)

3. Different sources of infection
4. Contributions of Robert Koch
5. Classification of microbes on the basis of hazards
6. Classification of laboratory safety cabinets and its applications
7. Tests for determining the efficacy of disinfectants
8. Live vaccines
9. Immunodeficiency diseases
10. Mention important differences between prokaryotes and eukaryotes
11. Different staining methods.
12. Differences between active and passive immunity

Answer briefly (10x3=30)

13. Units of measurement in microbiology
14. What is pro zone and post zone phenomenon.
15. What is neutralisation test. Give examples
16. Iatrogenic infection
17. Mechanisms of autoimmunity
18. Difference between an antigen and haptan.
19. Motility of bacteria
20. Incineration
21. Name different types of microscopes.
22. Sterilisation of operation theater
