

First B.Sc MLT Degree Examinations, September 2013

BASIC MICROBIOLOGY & IMMUNOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Describe the different types of biosafety cabinets. What is its application in microbiology. (8+2=10).
2. Classify immunity. Describe the various innate immune mechanisms. (3+7=10)

Short notes

(10x5=50)

3. Exotoxins
4. Sources of infection and transmission
5. Filtration
6. Differential staining techniques
7. Principle and working of autoclave
8. Gaseous disinfectants
9. ELISA
10. T lymphocytes
11. Autoimmune diseases and the mechanisms of autoimmunity
12. Monoclonal antibodies and hybridoma technology

Answer briefly

(10x3=30)

13. Inspissation
14. Negative staining
15. Cold sterilization
16. Carrier
17. Haptens
18. Co- agglutination
19. Natural killer cells
20. Biological effects of complement
21. Type IV hypersensitivity
22. Counter Current Immunoelectrophoresis