

First B.Sc (MLT) Degree Examinations, September 2012

BASIC MICROBIOLOGY & IMMUNOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. What is bio-hazard. Classify microbes on the basis of hazards. Describe the principle of bio-safety cabinet level II and its applications (1 + 3 + 6 = 10)
2. Define infection. Describe the different sources, modes of transmission and the predisposing factors responsible for infection (1+2+3+4 = 10)

Short notes

(10x5=50)

3. Anaphylaxis
4. Heterophile agglutination tests
5. Enzyme immunoassay
6. Dry heat sterilization
7. Live attenuated vaccine
8. Cytokines
9. Type II hypersensitivity
10. Central lymphoid organs
11. Coomb's test
12. Bacterial capsule

Answer briefly

(10x3=30)

13. Immunoglobulins
14. Bacterial adhesion
15. T suppressor cells
16. Flagellar staining
17. Robert Koch
18. Cell wall of gram positive bacteria
19. Antigen presenting cell
20. Bacterial DNA
21. Tyndallisation
22. . Monoclonal antibody
