

Third Year B.Sc. Medical Microbiology Examinations September 2018

Immunology, Immunochemistry and Serology - I

Time: 3 Hours

Max. Marks: 100

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essay

(2x15=30)

1. Describe in detail about the structure and function of various lymphoid organs and cells of immune system.
2. Define antibody. Describe in detail about the structure and functions of various types of antibodies.

Short Essay

(2x10=20)

3. Mechanisms of microbial pathogenicity.
4. Describe in detail about the principle, types and applications of ELISA

Short Answers

(6x5=30)

5. Complement deficiencies
6. Western blot
7. Lectin pathway
8. Cytokines
9. Natural killer cells
10. Monoclonal antibodies

Comment on

(10x2=20)

11. Sub unit vaccine
12. Antigen presenting cells
13. Affinity and avidity of antibody
14. Hapten
15. Toll-like receptors
16. Passive immunity
17. Transfer factor
18. T cell receptor
19. Herd immunity
20. Super antigens.
