

Third Year B.Sc. Medical Microbiology Supplementary Examinations
October 2021

Immunology, Immunochemistry and Serology – I
(2014 Scheme)

Time: 3 Hours

Max. Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essay**(2x15=30)**

1. Enumerate properties and types of Antigen- antibody reactions. Describe in detail the principle, types and applications of ELISA (Enzyme Linked Immunosorbant Assay).
2. Describe in detail about the structure and functions of various lymphoid organs and cells of immune system.

Short Essay**(2x10=20)**

3. What are monoclonal antibodies. Describe in detail the production, types and applications of monoclonal antibodies.
4. Describe in detail the types of vaccines with examples. Add a note on properties of good vaccine and complications associated with vaccine.

Short Answers**(6x5=30)**

5. Difference between passive and active immunity
6. Pattern recognition receptors
7. Factors of bacterial pathogenicity
8. Theories of immune response
9. Complement system deficiencies
10. Lectin pathway

Comment on**(10x2=20)**

11. Direct Coombs test
12. Transfer factor
13. T cell receptor
14. Immunoglobulin M
15. Measurement of immunity
16. Reservoirs of infection
17. Super antigen
18. Dendritic cells
19. Mucosa Associated Lymphoid Tissue (MALT)
20. Heterophile antigens
