

2016 Scheme

QP Code: 411020

Reg. No.....

Fourth Year B.Sc. Medical Biochemistry Degree Regular/Supplementary Examinations January 2025

Paper XII - Immunology and Immunochemistry

Time: 3 Hours

Total 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*

Essays

(2x15=30)

1. Describe the structure of immunoglobulin (Ig) and compare the salient features of different types of immunoglobulins.
2. Define complements. Explain in detail the classical complement pathway. Add a note on complement deficiency disorders. (2+10+3)

Brief Essays

(2x10=20)

3. Describe antigens and concepts involved in vaccine development.
4. Define immunity. Discuss different types of immunity.

Short answers

(6x5=30)

5. Differences between polyclonal and monoclonal antibodies.
6. What are the special features of antigen antibody reactions. Discuss it with the technique of radioimmunoassay.
7. Discuss the various mechanisms of activation of proto-oncogenes to oncogenes.
8. Competitive Enzyme Linked Immunosorbent Assay.
9. What is graft rejection and its types. Discuss the causes.
10. Structure and functions of Human Leukocyte Antigen (HLA).

Comment on

(10x2=20)

11. Two features of p53 gene.
12. Human Immunodeficiency Virus (HIV) Window period.
13. Functions of lymphokines.
14. Clonal selection.
15. Bence-Jones Protein.
16. Coombs test.
17. Endogenous antigen.
18. Anticancer drugs.
19. Natural killer cells.
20. Infection and inflammation.
