

2016 Scheme

QP Code: 411020

Reg. No.....

Fourth Year B.Sc. Medical Biochemistry Degree Supplementary Examinations June 2023

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 classical and alternate activation pathways of complement system. Add a note on biological tasks carried out by complement system in the body.
2. Discuss salient features, types and applications of antigen antibody reactions

Brief Essays

(2x10=20)

3. Different phases and check points of cell cycle
4. ABO and Rh blood group systems and their medical applications

Short answers

(6x5=30)

5. Antigen presenting cells
6. Modes of transmission of infections
7. Applications of agglutination reaction
8. MHC (Major Histocompatibility Complex) class I and class II molecules and their functions
9. Types of immunotherapy of cancer
10. Important mechanisms of activation of proto oncogenes

Comment on

(10x2=20)

11. Antigen presenting cells
12. Opsonization
13. Secondary lymphoid organs
14. Importance of monoclonal antibodies
15. Haptens
16. Live attenuated vaccines
17. Passive immunity
18. ELISA (Enzyme Linked Immune Sorbent Assay)
19. Adjuvants
20. Receptors in the immune system
