

2016 Scheme

QP Code: 411020

Reg. No.....

Fourth Year B.Sc. Medical Biochemistry Degree Supplementary Examinations July 2024

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. Explain in detail the steps involved in hybridoma technology. What are the applications of monoclonal antibodies in immunology
2. What are the primary and secondary lymphoid organs. Illustrate the structure and functions of respective organs.

Brief Essays

(2x10=20)

3. Phases and major events in cell cycle. Add a note on its regulation.
4. Explain the mechanisms by which Antibody diversity is generated

Short answers

(6x5=30)

5. What is an epitope. Describe the characteristic features of B and T cell epitopes.
6. What are tumour markers. Give examples. What is the significance of measuring tumour markers.
7. Components of complement system.
8. What are the different types of hypersensitivity reactions.
9. Difference between primary and secondary immune response.
10. What is autoimmunity. Name any four common autoimmune diseases.

Comment on

(10x2=20)

11. Immunoglobulin E and its significance
12. DNA vaccines
13. Role of cytokines in immunity
14. Laboratory diagnosis of HIV infection
15. Opsonisation
16. Superantigens
17. Allograft rejection
18. Applications of radioimmunoassay
19. Lectin pathway.
20. Retrovirus
