

# 2016 Scheme

QP Code: 411020

Reg. No.....

## Fourth Year B.Sc. Medical Biochemistry Degree Regular Examinations February 2021

### 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. Discuss the types of cells involved in immune system and their roles in immune reactions.
2. What are monoclonal antibodies. Write a note on synthesis and significance of monoclonal antibodies.

#### Brief Essays

(2x10=20)

3. Discuss cell mediated immune response. Mention two disorders associated.
4. Classify hypersensitivity reactions

#### Short answers

(6x5=30)

5. Antigen presenting cells
6. Indirect and direct Immunofluorescence
7. Inactivated or killed vaccines
8. Pathogenesis of Acquired Immunodeficiency Syndrome (AIDS)
9. Types of immunotherapy of cancer with one example for each
10. Mention any five tumour markers and any one type of cancer detected by each

#### Comment on

(10x2=20)

11. Rh immunization
12. Opsonization
13. Artificial immunity
14. Allograft rejection
15. Sources of infection
16. Complement deficiency disorders
17. Two examples for auto immune disorders
18. Importance of estimation of complements
19. Epitope spreading in autoimmune diseases
20. Hemolytic disease of new born

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