

# 2016 Scheme

QP Code: 411020

Reg. No.....

## Fourth Year B.Sc. Medical Biochemistry Degree regular/Supplementary Examinations February 2022

### 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 hypersensitivity. Write in detail the steps and components involved in hypersensitivity reactions.
2. What are complements. Discuss in detail complement fixation tests.

#### Brief Essays

(2x10=20)

3. Define carcinogen. Write in detail the different types of mutations
4. Discuss the ABO and Rh blood group systems. What are the applications of blood groups.

#### Short answers

(6x5=30)

5. Structure and functions of IgE
6. Oncogenes
7. Immunoelectrophoresis
8. Autoimmune diseases
9. Passive immunity
10. Check points in cell cycle and their significance

#### Comment on

(10x2=20)

11. Processes taking place in G1 phase
12. Radioisotopes used in RIA
13. Enzyme conjugates in ELISA
14. Mitosis
15. B cells
16. IgM
17. Stages in HIV infection
18. Lamda chain
19. Rb gene
20. Immunotherapy of cancer

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