

# 2016 Scheme

QP Code: 412019

Reg. No.....

## Fourth Year B.Sc. Medical Microbiology Degree Supplementary Examinations July 2025

### Paper XII – Immunology, Immunochemistry and Serology - II

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. Define and classify hypersensitivity reactions. Discuss in detail about the mechanism and pathology of Type IV hypersensitivity reactions with examples.
2. What is an allograft. Describe the types and mechanism of graft rejection.

#### Brief Essays

(2x10=20)

3. Describe the laboratory diagnosis of HIV infection.
4. Describe in detail the causes of primary cellular immunodeficiencies

#### Short Answers

(6x5=30)

5. Blood component therapy
6. Immunological surveillance of cancer
7. Graft Versus host reaction
8. Detection of Type 1 hypersensitivity
9. Immunity to bacterial infections
10. Arthus reaction

#### Comment on

(10x2=20)

11. Serum Sickness
12. Name FOUR causes of secondary immunodeficiency
13. Coombs test
14. Tumour markers for diagnosis of cancers
15. Myasthenia gravis
16. Sequestered Antigens
17. Immunotherapy of cancer
18. Transfusion reactions
19. Flowcytometry
20. IgA antibodies

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