

QP Code: 312019

Reg. No.....

**Third Year B.Sc. Medical Microbiology Regular/Supplementary
Examinations February 2026
Immunology, Immuno Chemistry and Serology I
(2016 Scheme)**

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*

Essay

(2x15=30)

1. Enumerate the properties of Complement System. Describe the alternate complement pathway in detail. Mention two biological effects of complement
2. Write in detail about factors predisposing to microbial pathogenicity

Short Essay

(2x10=20)

3. Enumerate different Antigen Antibody reactions. Describe in detail about Agglutination reaction
4. Describe in detail about humoral immunity

Short Answers

(6x5=30)

5. Sandwich ELISA
6. Clonal selection theory
7. Ig G immunoglobulin
8. Precipitation reaction
9. Sequestered antigen
10. Adjuvants

Comment on

(10x2=20)

11. Herd immunity
12. HLA typing and its applications
13. Indirect Immunofluorescence test
14. NK cells
15. Endotoxins
16. Phagocytes
17. CD4 cells
18. CLIA
19. Coombs test
20. Uses of Monoclonal antibody
