

QP Code: 312019

Reg. No.....

**Third Year B.Sc. Medical Microbiology Supplementary Examinations
July 2024**

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. Define infection. Describe the different modes of transmission and their examples.
Describe the factors predisposing to microbial pathogenicity.
2. Define antibodies. Classify antibodies. Write a note on structure and functions of IgM.

Short Essay

(2x10=20)

3. Name various antigen-antibody reactions. Describe the principle and types of agglutination reactions with examples.
4. Development of T cells.

Short Answers

(6x5=30)

5. Discuss the components of innate immunity.
6. Complement fixation test.
7. Cytokines.
8. Radioimmunoassay.
9. Alternate complement pathway.
10. Macrophages.

Comment on

(10x2=20)

11. IgE.
12. Herd immunity.
13. Enzymes used in ELISA.
14. NK cells.
15. Basophils.
16. Rocket electrophoresis.
17. Components of complement.
18. Isotypes switching.
19. MHC restriction.
20. Trafficking of lymphocyte.
