

QP Code: 312019

Reg. No.....

**Third Year B.Sc. Medical Microbiology Supplementary Examinations  
October 2023  
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 Antibody. Enumerate the properties of Antibody. Describe the structure of Immunoglobulin in detail
2. What is an Antigen. Discuss in detail about various factors of antigenicity

**Short Essay**

**(2x10=20)**

3. Rapid tests used in serology
4. Differentiate between T cells and B cells. Describe the types of T cells in detail

**Short Answers**

**(6x5=30)**

5. Ig E immunoglobulin
6. Cytokines
7. Enzyme linked fluorescent Assay (ELFA)
8. Production of Monoclonal Antibodies and its applications
9. MHC
10. Herd immunity

**Comment on**

**(10x2=20)**

11. Detection of cell mediated immunity.
12. Toxoids
13. Heterophile agglutination test.
14. Central lymphoid organs.
15. Super antigens.
16. Tumour necrosis factor.
17. Passive immunisation.
18. Immunoblotting techniques
19. IgM antibody capture ELISA
20. Biological effects of Complement

\*\*\*\*\*