

QP Code: 302019

Reg. No.....

**Third Year B.Sc. Medical Microbiology Supplementary Examinations
March 2019**

Immunology, Immunochemistry and Serology - I

Time: 3 Hours

Max. Marks: 100

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essay

(2x15=30)

1. Define and classify antigens. Describe in detail about human leukocyte antigen
2. Define complement. Describe in detail about the classical complement system.

Short Essay

(2x10=20)

3. Passive immunity
4. Peripheral lymphoid organs

Short Answers

(6x5=30)

5. Immunoglobulin A
6. T helper cells
7. Radioimmunoassay
8. Subunit vaccines
9. Monoclonal antibodies
10. Immunological tolerance

Comment on

(10x2=20)

11. Natural killer cells.
12. Neutrophils
13. Direct Coomb's test
14. Name four food borne diseases
15. Mechanical components of innate immunity
16. T cell independent antigens
17. Prozone
18. Schick test
19. Name four agglutination reactions
20. Paratope.
