

**QP Code: 302019**

**Reg. No.....**

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

**April 2018**

**Immunology, Immunochemistry and Serology-I**

**Time: 3 Hours**

**Max. Marks: 100**

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

**Essay**

**(2x15=30)**

1. Enumerate the properties and types of antigen – antibody reactions. Describe in detail about the principle, types and applications of immuno fluorescence assay.
2. What is complement. Explain in detail about classical complement pathways. List various effector functions of complement.

**Short Essay**

**(2x10=20)**

3. Theories of immune response.
4. Mucosa associated lymphoid tissue

**Short Answers**

**(6x5=30)**

5. Acute phase reactant proteins.
6. Antibody dependent cell mediated cytotoxicity (ADCC)
7. Pathogenicity islands.
8. Discuss the various modes of transmission
9. Pattern recognition receptors
10. Factors influencing the immunogenicity of an antigen

**Comment on**

**(10x2=20)**

11. Carriers
12. Adjuvant
13. Epitope
14. Abnormal immunoglobulins
15. Co-agglutination test
16. Major histocompatibility antigen
17. Vaccine vial monitor
18. T cell receptor
19. Dendritic cells
20. Vector borne transmission of diseases

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