

**B.Sc. IN MEDICAL LABORATORY TECHNOLOGY
(BSCMLT)**

Term-End Examination

June, 2014

BAHI-007 : IMMUNOLOGY

Time : 3 Hours

Maximum Marks : 70

PART - A

Answer **any three** of the following. Each question carries **ten** marks. **10x3=30**

1. Enumerate various types of antigen antibody reactions. Describe PRECIPITATION in detail, giving suitable examples.
2. Draw a well labelled diagram of complement cascade. Write briefly about the biological effects of complement in health and disease.
3. List the tests used for the diagnosis of enteric (typhoid) fever. Describe the principle, procedure, interpretation and precautions in the widal test.
4. Compare and contrast the physical and biological properties of various immunoglobulins groups in a tabular form.

PART - B

5. Write briefly on **any four** of the following : $5 \times 4 = 20$
- (a) Basic or innate immune system
 - (b) Differences between T and B lymphocytes
 - (c) Type I hypersensitivity reactions
 - (d) Microbial antigens
 - (e) Serology
6. Write short answers to the following : $2 \times 5 = 10$
- (a) Oral Polio vaccine
 - (b) Tuberculin skin test
 - (c) Autoimmunity
 - (d) Name the tests used for detecting HIV infection
 - (e) VDRL test

PART - C

7. Write **True** or **False** (T or F) against the following : $1 \times 5 = 5$
- (a) Hypersensitivity is a beneficial response in immune system.
 - (b) Autoimmunity is a harmful response in immune system.
 - (c) Hapten is an incomplete antigen.
 - (d) Ig M is the first immunoglobulin synthesized during microbial infection in a patient.
 - (e) Ankylosing spondilitis is an autoimmune disease associated with B27 HLA type.

8. Fill in the blanks by choosing the appropriate from the following : 1x5=5
- (a) Flocculation technique is _____ reaction.
 - (i) antigen antibody
 - (ii) immune adherence
 - (b) _____ is the most significant component of the complement system.
 - (i) Component C1g
 - (ii) Component C 3
 - (c) Anti Diphtheric Serum (ADS) is used for boosting _____ immunity.
 - (i) Active
 - (ii) Passive
 - (d) Anaphylaxis is an example of _____ hypersensitivity reaction.
 - (i) Type I
 - (ii) Type III
 - (e) Thymus is an essential component of _____ immunological apparatus.
 - (i) humoral
 - (ii) cell mediated
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