

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

Term-End Examination

December, 2013

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. Classify Hyper sensitivity reactions. Write briefly on Type I Hypersensitivity, giving suitable examples.
2. With the help of a labelled diagram, describe the structure of Immunoglobulin. Add a note on their biosynthesis and functions in body.
3. List various tests used in the diagnosis of syphilis. Describe the principle, procedure, interpretation and precautions in VDRL Test.
4. Enumerate the differences between T and B Lymphocytes. Discuss their role in providing immunity in humans.

PART-B

5. Write briefly on **any four** of the following : $5 \times 4 = 20$
- (a) Widal Test.
 - (b) Gel diffusion techniques.
 - (c) ELISA and its applications.
 - (d) Active and Passive Immunity.
 - (e) Phagocytosis.
6. Write short notes on : $5 \times 2 = 10$
- (a) Incomplete antigen.
 - (b) Immunoglobulin E (IgE)
 - (c) Two applications of Immunofluorescence.
 - (d) B.C.G vaccine.
 - (e) Autoantibodies.

PART-C

7. Write True (t) or False (f) against each statement $1 \times 5 = 5$
- (a) Complement is necessary for Type III hypersensitivity reaction.
 - (b) IgM antibodies cannot cross placental barrier in pregnant mother.
 - (c) AIDS is an example of primary immunodeficiency disease
 - (d) Tuberculin test is a skin test done for diagnosing tuberculosis in man.
 - (e) B-Lymphocytes mature in Thymus and regulate cell mediated immunity.

8. Fill in the **blanks by choosing** the appropriate from the following : 1x5=5

- (a) Anti Tetanus Serum (ATS) is used for _____ immunity.
(i) Active (ii) Passive.
- (b) Autoimmunity is a _____ response in immune System
(i) beneficial (ii) harmful.
- (c) Oral polio vaccine comprises of _____ virus.
(i) live attenuated (ii) Killed
- (d) Anti cancer drugs can _____ the immunity of the patient.
(i) increase (ii) decrease.
- (e) C-reactive protein (CRP) is an example of _____.
(i) Acute phase reactant
(ii) Late responsive globulin.
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