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BAHI-007

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BSCMLT)

Term-End Examination

December, 2014

BAHI-007 : IMMUNOLOGY

Time : 3 Hours *Maximum Marks : 70*

PART - A

Answer **any three** questions. Each question carries **ten** marks. **3x10=30**

1. Define Immunity. List the types of immunity and describe in detail Acquired Immunity.

2. List the various types of serological reactions. Describe in detail Agglutination Reactions.

3. What are immunoglobulins ? Describe the structure of an immunoglobulin and add a note on IgM.

4. Define ELISA. Write in detail about the types, principles and uses of ELISA with neat diagram.

PART - B

5. Write short notes on **any four** of the following : **4x5=20**

   (a) What is Lattice Hypothesis ? Add a note on Electro immunodiffusion.

   (b) Laboratory diagnosis of syphilis.

   (c) Delayed hypersensitivity.

   (d) Widal test.

   (e) Biological classes of Antigens.

6. Write in brief on the following : **5x2=10**

   (a) Difference between primary and secondary immune response.

   (b) Role of complement system.

   (c) List the primary and secondary lymphoid organs and add a note on T cells.

   (d) Classification of hypersensitivity reactions.

   (e) Radial immunodiffusion.

PART - C

7. Write **True** or **False** for the following : **5x1=5**

   (a) Antigen and antibody reactions are irreversible.

   (b) IgG is the only maternal antibody that is transported across the placenta.

   (c) Resistance induced by vaccines is called Artificial Active immunity.

   (d) Anaphylaxis is a delayed type of hypersensitivity reaction.

   (e) Bone marrow is a peripheral lymphoid organ.

8. Fill in the blanks by choosing the appropriate from the following : **5x1=5**

(a) Hapten is _____ .

(i) Complete antigen

(ii) Incomplete antigen

(b) In precipitation reaction _____ antigen combines with its antibody at suitable temperature and pH.

(i) Soluble (ii) Particulate

(c) VDRL is an example of _____ .

(i) Agglutination (ii) Flocculation

(d) _____ is called secretory antibody.

(i) IgM (ii) IgA

(e) In direct Coomb's test, sensitization of RBCs with antibodies occur _____.

(i) in vivo (ii) in vitro