00191

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BSCMLT)

Term-End Examination December, 2015

BAHI-007: IMMUNOLOGY

Time: 3 Hours Maximum Marks: 70

Note: The question paper has three Parts. Part A, B and C.
Attempt any three questions from Part A.
Attempt all questions from Part B and C.

PART - A

Answer **any three** of the following. Each question carries **ten** marks

- Classify the various lymphocyte subtypes in the human body. Write briefly on the role of B-cells (B-lymphocyte) in providing immunity.
- List the types of immunoglobulins. Describe the role of Immunoglobulin E (IgE) in humans.
- 3. What do you understand by immuno deficiency disorders? Write a note on the causative agent and laboratory diagnosis of acquired immuno deficiency syndrome (AIDS).
- 4. Enumerate the types of hypersensitivity reactions giving suitable examples. Differentiate between immediate and delayed hypersensitivity in a tabular form.

PART - B

- 5. Write short notes on any four of the following:
 - (a) Flocculation tests

5x4 = 20

- (b) Polio Vaccines
- (c) Applications of latex agglutination assays
- (d) Chemotaxis
- (e) Immunofluorescence
- **6.** Write briefly on following :

5x2=10

- (a) Principle of ELISA
- (b) CD markers of T-cells
- (c) Definition of auto antibodies
- (d) Steps of alternative complement pathway
- (e) Mantoux test performance and interpretation

PART - C

- 7. Write True or False against the following statements: 1x5=5
 - (a) Contact dermatitis is an example of delayed (type IV) hypersensitivity.
 - (b) Tetanus Toxoid is given orally as vaccine.
 - (c) T-lymphocytes mature in the thymus and regulate cell mediated immunity.
 - (d) Plasma cells produce immunoglobulins.
 - (e) The membrane attack complex is made of complement components C_1 to C_4 (C_{1-4}).

Fill i	the blanks from the choices provided: 1x5 Anti-rabies serum is used for generating immunity in patient.	5=5
	(i) active	
	(ii) passive	
(b)	Incomplete antigens are also known as	
	(i) haptens	
	(ii) acute phase reactants	
(c)	ESR, C-reactive protein and ferritin are examples of	
	(i) acute phase reactants	
	(ii) tests for viral infections	
(d)	Pentameric structure is seen inantibodies.	
	(i) IgG (Immunoglobulin G)	
	(ii) IgM (Immunoglobulin M)	
(e)	Rose Waaler Test has been used for detecting	
3	(i) Rheumatoid factor	
V	(ii) Dengue antigen	