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BAHI-007

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

Term-End Examination June, 2016

00268

BAHI-007: IMMUNOLOGY

Time: 3 hours Maximum Marks: 70

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

PART A

Answer any **three** of the following. Each question carries 10 marks.

- 1. Briefly describe the complement system and its various pathways.
- 2. Define and classify vaccines. Add a short note on BCG vaccine.
- 3. Define and classify antigen-antibody reactions.

 Add a note on the VDRL test.

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- 4. Define the various types of hypersensitivity reactions. Write a short note on immediate (Type-I) hypersensitivity reaction.

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PART B

5. Write short notes on any four of following: $4 \times 5 = 20$ (a) Widal Test (b) **Tetanus Toxoid** (c) ELISA (d) Autoimmune Reactions (e) Mantoux Test Write briefly about the following: 6. $5 \times 2 = 10$ (a) Incomplete antigen (b) Antistreptolysin O Definition and example of autoimmunity (c) (d) **Precipitation Tests**

(e)

Immunofluorescence

PART C

7.	Wri	te True or False against the following					
	statements: $5 \times 1 = 5$						
	(a)	Anaphylactic shock is an example of delayed (Type-IV) hypersensitivity.					
	(b)	DPT vaccine protects against diphtheria, polio and typhoid.					
	(c)	HIV targets CD4 + T-lymphocytes.					
-	(d)	Eosinophils are increased in parasitic infections.					
	(e)	B-lymphocytes are chiefly involved in cell mediated immunity.					
8.	Fill in the blanks from the choices provided. $5 \times 1 = 5$						
	(a)	An example of an innate immune component is					
		(i) Natural killer cells					
		(ii) Plasma cells					
	(b)	SDS-PAGE stands for					
		(i) Sodium dodecyl sulphate polyacrylamide gel electrophoresis					
		(ii) Synthetically derived soluble particle gradient electrophoresis					

(c)	Gen	etically	\mathbf{pro}	grammed	death	of		
	auto	reactive T	'-lym	phocytes in	n thymus is	s via		
		•						
	(i)	apoptosi	.s					
	(ii)	necrosis						
(d)	antibodies are capable of crossing							
	the placenta to reach the fetus.							
	(i)	IgG						
	(ii)	IgM						
(e)	Neu	trophils	kill	invading	bacteria	by		
		•						
	(i)	secreting them	g an	tibodies d	irected aga	ainst		
	(::)	arridatir.	o hi	mat of U		£		

radicals