

RP-003-001519 Seat No. _____

Third Year B. Sc. (Sem. V) (CBCS) Examination

February - 2019

BT - 503 : Immunology

(Old Course)

Faculty Code: 003

Subject Code: 001519							
Γim	e : 2	$\frac{1}{2}$ Hours] [Total Marks:	70				
1	Obje	ectives:	20				
	(1)	The latin term immunis means					
	(2)	Give names of primary lymphoid organs.					
	(3)	Interaction between soluble antigen and antibody results					
		in visible clumping called					
	(4)	The causative agent of tuberculosis?					
	(5)	In a xenograft, source of grafted tissues is from					
	(6)	Define Vaccine.					
	(7)	What are primary mediators in Type I hypersensitive					
		reaction ?					
	(8)	Genes that encode MHC I & II molecules are linked					
		together on which chromosome in human?					
	(9)	The process by which hematopoietic stem cells are					
		differentiate to form cells of immune system?					
	(10)	T lymphocytes mature in					
	(11)	Give Full form: ELISA.					
	(12)	Which immunoglobulin present as membrane bound					
		receptors on B lymphocytes?					
	(13)	Who discovered hybridoma technology for production of					
		monoclonal antibodies ?					

known as _____.

(14) The immunologically active regions of an immunogen

that bind to antigen specific membrane receptor is

- (15) Give one example of Antigen presenting cell. (16) Name an autoimmune disease of joints. (17) Which cells of immune system mainly responsible for phagocytosis? (18) Which immunoglobulin has capacity to cross placenta? (19) CD4 T cells are generally restricted by which class of MHC? (20) Who give the term "Vaccine"? Answer any three out of six: 6 What are Macrophages? (1) (2)Draw a labeled diagram of basic structure of antibody. (3)Define: Aglutination. (4)Main functions of MHC molecules. (5)Define Immunity. What is Autograft? (6) (b) Answer any three out of six: 9 Explain types of WBC. (1) (2)Write Hybridoma technology. (3)Explain in brief Inflammation. Write down about Structures of MHC molecules. (4) (5)Explain protozoan infection with example of malaria. What is Epitopes? (6)(c) Answer any two out of five: 10
- - Explain hematopoiesis.
 - (2)Short note on structure and functions of Immunoglobulins.
 - Write down about antigen processing and presentation pathway.
 - Short note on Hypersensitive reaction. (4)
 - Explain Secondary lymphoid organs. (any two)

2

3	(a)	Answer any three out of six:		
		(1)	What is phagocytosis?	
		(2)	What are Haptens?	
		(3)	What are the functions of Cytotoxic T lymphocytes.	
		(4)	Enlist factors influence immunogenicity.	
		(5)	What is autoimmune disease? Give example of	
			autoimmune disease.	
		(6)	Give difference between MHC class I & II	
			molecules.	
	(b)	Ans	wer any three out of six:	9
	\ /	(1)	Explain Graft rejection.	
		(2)	Regulation of complement system.	
		(3)	Explain in brief T cell receptor.	
		(4)	Write Influenza virus infection and treatment.	
		(5)	Explain adjuvant.	
		(6)	Write Western blotting.	
	(c)	Ans	wer any two out of five :	10
	` '	(1)	T cell maturation, activation & differentiation.	
		(2)	Explain AIDS as immunodeficiency disease.	
		(3)	Properties and function of cytokines.	
		(4)	Adaptive immune response.	
		(5)	Short note on types of vaccines.	