2019/EVEN/BTCH-401/219

(2)

	TDC Even Semester Exam., 2019						
	BIOTECHNOLOGY						
	(Honours)						
	(4th Semester)						
	Course No.: BTCH-401						
	(Immunology—II)						
	Full Marks : 35 Pass Marks : 12						
	Time: 2 hours						
	The figures in the margin indicate full marks for the questions						
1.	(a) What is MHC polymorphism?	3					
	(b) State the role of MHC in immunity.	4					
	OR						

3.	(a)	Give the basic mechanism of the immune response against an infectious agent. 5			
	(b)	What are interleukins? Why are they so called? 2			
		OR			
4.	(a)	With an example, illustrate what is autoimmunity. 3			
	(b)	Write brief notes on: 2+2=4			
		(i) Hashimoto's thyroiditis			
		(ii) SLE			
5.	(a)	Give the structure of HIV. 3			
	(b)	Illustrate the key points of the HIV life cycle. 4			
OR					
6.	(a)	Elucidate in brief the immune mechanism in cancer. 5			
	(b)	Enlist the cells implicated in anti-tumor cytotoxicity. 2			
J9 /1424 (Continued)					

2. (a) Differentiate between exogenous and

(b) Chalk out the pathway of processing of

endogenous antigens.

endogenous antigens.

2

5

(Turn Over)

7.	(a)	Write brief notes on: 2½+2½ (i) Immunoelectrophoresis (ii) Immunoblotting	=5			
	(b)	Give two examples of immunodiffusion techniques.	2			
OR						
8.	(a)	What is affinity chromatography?	1			
	(b)	Give a detailed account of monoclonal antibodies.	6			
9.	(a)	What is ELISA? Classify different types of ELISA. 1+2	=3			
	(b)	Illustrate the basic mechanism of sandwich ELISA.	4			
OR						
10.	(a)	What is recombinant vaccine?	3			
	(b)	Write a note on antibody as diagnostic tool.	4			
