SEAT No.

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SARDAR PATEL UNIVERSITY

T. Y. B.Sc. Biochemistry (SEMESTER - VI) BIOCHEMISTRY: US06CBCH05 IMMUNOLOGY

Date: 6	4/04/1	8 (Wed	lnesda	y)
Time:	10:00	AM to	01:00	PM

		TOTAL MARK	S: 70		
Q.1	Multiple Choice questions: (1 Ma	rk each)	10		
1.	First line of defence include				
	a. Skin	b. Mucus			
	b. Lysozyme Secretion	d. All of these	•		
2.	What type of immunoglobulin binds to	mast cells during an allergic reaction?			
	a. IgA	c. IgE			
•	b. IgD	d. IgG			
3.	All of the following are catagorised as secondary lymphoid organs except				
	a. Lymph nodes				
	b. Thymus				
	c. Spleen		-		
	d. Sub epithelial collections of lym	phocyte			
4.	What class of MHC receptors is found on the surface of all nucleated cells?				
	a. Class I MHC	c. Class II MHC			
	b. Class III MHC	d. All of above			
5.	T helper cell medicated hypersensitivity	vis			
	a. Type I hypersensitivity	c. Type II hypersensitivity			
	b. Type II hypersensitivity	d. Type IV hypersensitivity			
6.	The graft taken from a cadaver is				
	a Auto oraft	a Incaraft			
	b. Allograft	d. Xenograft			
7.	What antibody is a significant component	ent of the mucous and serous secretions			
	of the salivary glands?				
	a. IgA	c. IgE			
	b. IgD	d. IgG			
8.	B and T cells are produced by stem cells that are formed in:				
	a. Bone marrow				
	b. The liver				
	c. The circulatory system				
	d. The spleen				
9.	Which of the following complement is not involved in alternative pathway?				
	a. C1	c. C3			
	b. Factor B	d. Factor D			
10.	In agglutination reactions, the antige	en is a in precipitation			
	reactions, the antigen is a				
	 a. whole cell/soluble molecule 	c. Soluble molecule/whole cell			
	b. Protein/Antibody	d. Protein/carbohydrates			

	, Q.	2 Answer in very short (Any Ten)	
	1.	What are NK cell? Give its function.	2
	2,	Differentiate the Innate and adaptive immunity.	
	3.	List the types of T-cell and its function	
	4.	Define following terms: a Allograft	
	5.	What is MHC? Differentiate MHC class I and MHC class II	
	6.	Give a brief note on: Tumor Antigen	:
,	7.	Explain the function of dendritic cell	
	8.	Give a brief note on: Isotypes	:
	9,	Explain: Why Ig M is more efficient to neutralize vival infant;	,
	10.	whice down the procedure and principle of sandwich ELISA	
	11.	List out the four basic properties of antigen.	
	12.	What is complement? Write down the basic function of complement.	
	Q.3	a) Explain the immunological role of B-lymphocytes and T-Lymphocytes.	F. 60
,		a) List various secondary lymphoid organs. Explain any one in detail.	[5]
		OR	[5]
	Q.3	a) Explain the biochemical events of classical pathway for complement	
		The second policy of the secon	[5]
_		b) Explain the anatomical barrier (First Line of defence) in Innate Immunity.	[5]
	Q.4	a) Explain - "Antibodies are Heterodimers"	
		a) Explain in detail: AIDS	[5]
		OR	[5]
	Q.4	a) What do you mean precipitation reaction? Discuss various types of	
		precipitation in immunology.	[5]
		a) Give an account on immunological role of IgG.	F # 4
		B-ton total of 180.	[5]
	Q.5	a) Give the importance of MHC class I & II. Explain the structure of MHC class –I molecules	
		1 1110100u10g,	[5]
		a) Write in detail about immune response in malignancy.	563
		OR	[5]
	Q.5	Write a note on: a) Allograft reaction	
		b) Classification of transplantation	[5]
		y distribution of transplantation	[5]
•	Q.6	Define Vaccine. Explain the routes of administration and time schedule of vaccination.	[10]
		OR	
	Q.6	Describe the mechanism of Type I and Type II hypergeneiting	F1 ^-
	ign jagur		[10]
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