			-
79	ΙΔ	77	
I $TJ$	$T^{n}$	ىر ك	_
- ` سا	•		

Seat No	والمرابع المرابع المرا	,
---------	--	---

No. of Printed Pages : 2

## SARDAR PATEL UNIVERSITY 5<sup>TH</sup> SEMESTER - B.Sc. November - 2019. MICROBIOLOGY, USO5CMIC04 Immunology.

Date: 18/11/2019, Monday. Time: 10-00 am to 1-00 pm.

Total marks: 70

Q.1		Select the correct ans	wer from the option	as given below.	10
	1	repatterns(PAMP's) or		pathogen associated mo	olecular
		(a) Mast cells	(b)	Dendritic cells.	
		(c) Monocytes.	(d)	None of these.	
	2	Which of the following	ig is an example of	Acute phase proteins?	,
		(a) C-reactive prot		Mannose-binding lectins	3.
		(c) Surfactant prot	eins A. (d)	All of these.	
	3	Which of the following is an example of secondary lymphoid organ?			
		(a) Thymus.	(b)	Bone marrow.	
		(c) Spleen.	(d)	None of the above.	
	4	Parameters affecting		lecules depends upon	<u> </u>
		(a) Size of molecu	` '	Chemical nature of mole	ecules.
			igness. (a)		
	5	Antigens are made u	ıp of	· · · · · · · · · · · · · · · · · · ·	
		(a) Proteins.	(b)	Nucleoprotein.	
		(c) Polysaccharide			
	6			ts are based on basis of	
		(a) Agglutination.	(b)		
		(c) Flocculation.	(d)	None of these.	
	7	Which immunoglobu		one found in mucous secret	ions?
		(a) IgG.	(b)	IgA	
		(c) IgM.	(d)	None of these.	
	8 Nezelof,s syndrome occurs due to defect of				
		(a) T-cells.	(b)	B-cells	
		(c) Combined	(d)	None of these.	
		immunodefeci			
	9			nple of cytolytic/cytotoxic r	eaction
		mediated by IgG or			
		(a) Type-I hyperso	ensitivity. (b)	Type-II hypersensitivity	
		(c) Type-III hypers	sensitivity. (d)	Type-IV hypersensitivity	y.
	10	Auto-immune diseas	se occurs due to	antigens.	
		(a) Sequestered.	(b)	Cross-reacting.	
		(c) Neo.	(d)	All of the above.	
			<b>(T</b> )		COTA

Q.2		Give short answers to the following questions. ( Answer any ten)	20
,	1 2 3	What are mast cell ?Enlist its role. What is opsonization? Give examples of different types of cytokines.	
	4	Define:- Valence of antigen,Haptens.	
	5 6 7 8 9 10 11	What are MHC's ? Enlist its types. What are CD molecules? What are Monoclonal antibodies? Define:- Allotypes. and Avidity. Enlist factors affecting Antigen-antibody reactions. What is contact dermatitis? What are tumour antigen ? Give its examples. What is disorders of complement ?Enlist its examples.	
		Answer following long questions:-	
Q.3		What are Complement proteins?Write in detail about Alternative complement pathway.  OR	10
Q.3	A B	Explain the following:- Mechanism of phagocytosis. Chronic inflammation.	06 04
Q.4		Write Short note on:	
	Α	Types of T-cells.	06
	В	Clonal selection theory.	04
Q.4		OR Write in detail about B-cell receptors and its activation.	10
Q.5		Define:- Agglutination.Also write about its applications.  OR	10
Q.5	A B	Write Short note on: Structure of immunoglobulins. Primary and secondary immune response.	07 03
Q.6	A B	Write Short note on: Type-1 hypersensitivity reaction. Rheumatoid arthritis.  OR	06 04
Q.6	A B	Write Short note on: Allograft reaction. Types of immunodeficiency disease.	05 05

