C. U. SHAH UNIVERSITY Winter Examination-2021

Subject Name : Immunology

Subject Code : 5SC03IMM1		Branch: M.Sc. (Microbiology)	
Semester: 3	Date: 15/12/2021	Time: 02:30 To 05:30	Marks: 70

Instructions:

Q-1

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

SECTION – I Attempt the Following questions

(07)

	b. c. d. e. f.	What is Tumor? Define- Central Tolerance. Which antibody is available in tear? Which Subtype of Ig G antibody used to activate complement system? Enlist the types of complement pathway. Give the full form of MHC. What is Nude Mice?	01 01 01 01 01 01 01
Q-2		Attempt all questions	(14)
	a	Describe any one pathway for antigen processing and presentation.	07
	b	Write a detail note on Adaptive Immunity.	07
0,1		OR	(14)
Q-2		What you understand by Blotting? Enumerate the working principle & Applications of Western Blotting techniques.	(14)
Q-3		Attempt all questions	(14)
-	a	Explain T cell maturation in thymus.	07
	b	Enumerate the detail about animal model of primary immunodeficiency (nude mouse)	07
		OR	
Q-3		Attempt all questions	(14)
	a	Describe immune deficient disease: SCID	07
	b	Write a brief note on antigenic determinants on antibodies.	07

		SECTION – II	
Q-4		Attempt the Following questions	(07)
	a.	How many Polypeptide chain available in the structure of Ig?	01
	b.	Define – Antigen.	01
		What is Autoimmunity?	01
		Which technique is used to produce Monoclonal Ab?	01
			01
	f.	Which complement activation pathway is depend upon antigen -antibody interaction?	01
	g.	Example of Secondary Immune Organ.	01
Q-5		Attempt all questions	(14)
	a	Explain the generation of Cell Mediated Immune Response.	07
	b	Give the detail about MHC complex.	
		OR	
Q-5		Attempt all questions	(14)
		Write a brief note on Abzyme.	07
	b	Write a short note on the contributions of any two scientists to the field of immunology	07
Q-6			(14)
-		Give the information about Hypersensitivity with the help of examples. OR	
Q-6		Attempt all Questions	(14)
•	a	Discuss about any one Primary immune organ.	07
	b	Describe the Types of ELISA techniques	07

