Enrollment No:	Exam Seat No:

C. U. SHAH UNIVERSITY

Summer Examination-2022

Subject Name: Immunology

Subject Code: 4SC05IMM1 Branch: B.Sc. (Microbiology)

Semester: 5 Date: 22/04/2022 Time: 11:00 To 02:00 Marks: 70

Instructions:

- (1) Use of Programmable calculator & 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.

Q-1		Attempt the following questions:	(14)
	a)	Define:-Immunology.	01
	b)	What is stem cell?	01
	c)	What is the role of T cell?	01
	d)	What is the Function of B cell?	01
	e)	Expand – NK cell.	01
	f)	Define – Hapten.	01
	g)	What is Epitope?	01
	h)	Draw the structure of Antibody.	01
	i)	Antibody produced by which cell?	01
	j)	Expand :- MHC	01
	k)	Write down the examples of Immunodeficiency disorders	01
	1)	Define :- Tumor Markers	01
	m)	Expand – SCID	01
	n)	What is Cross reactivity?	01
Atter	npt any	four questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
	(a)	Write a detail note on ELISA.	07
	(b)	Write a detail note on causes and therapy for cancers.	07
Q-3		Attempt all questions	(14)
_	(a)	Write a detail note on generation of Cell mediated Immune Response.	07
	(b)	Write a detail note on Agglutination.	07
Q-4		Attempt all questions	(14)
•	(a)	Write a detail note on Monoclonal and Chimeric antibodies	07
	(b)	Write a detail note on Bone Marrow.	07



	Attempt all questions	(14)
(a)	Write a detail note on Major Histocompability complex	07
(b)	Write a detail note on DiGeorge syndrome	07
		(14)
	Write down a detail note on Structure, Functions and Properties of:	
	Immune Cells - T cell, B cell, NK cell, Macrophage, Mast cell,	
	Dendritic cell	
		(14)
	Write a detail note on Structure, Types, Functions and Properties of antibodies.	
	Attempt all questions	(14)
(a)	Write down the difference between Innate Immunity & adaptive	07
	Immunity.	
(b)	Write a detail note on Contributions of scientists for the development of	07
	field of immunology - Edward Jenner, Karl Landsteiner, Robert Koch	
	(b)	 (a) Write a detail note on Major Histocompability complex (b) Write a detail note on DiGeorge syndrome Write down a detail note on Structure, Functions and Properties of: Immune Cells - T cell, B cell, NK cell, Macrophage, Mast cell, Dendritic cell Write a detail note on Structure, Types, Functions and Properties of antibodies. Attempt all questions (a) Write down the difference between Innate Immunity & adaptive Immunity. (b) Write a detail note on Contributions of scientists for the development of

