

# C.U.SHAH UNIVERSITY

## Winter Examination-2015

**Subject Name :** Immunology & Clinical Microbiology

**Subject Code :** 4SC05ICM1

**Branch :** B.Sc(Microbiology)

**Semester : 5    Date :7/12/2015    Time : 2:30 To 5:30    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.

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<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
	a) Define immunity	1
	b) What is herd immunity	1
	c) Define hematopoiesis	1
	d) Define naïve lymphocytes	1
	e) Define avidity	1
	f) Define precipitation	1
	g) Define allograft	1
	h) What is immunogenicity?	1
	i) What is autoimmunity?	1
	j) Define monoclonal antibodies	1
	k) Define Epitopes	1
	l) What is hypersensitivity?	1
	m) What is MHC?	1
	n) What is PALS?	1

**Attempt any four questions from Q-2 to Q-8**

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a Explain types of immunity	7
	b Explain any two lymphoid organs of immune system with figure	7
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a Explain the process of hematopoiesis	7
	b Write a scientific note on cells of immune system	7
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a Give brief about immunogenicity & antigenicity	7
	b Explain T cell Receptor molecules	7



<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a Explain complement system	7
	b Explain b cell epitope with example	7
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a Explain hypersensitivity reaction	7
	b Write a note on transplant immunology	7
<b>Q-7</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a Draw structure of antibody. Write classes of immunoglobulins	7
	b Explain RID	7
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a Explain RIA	7
	b Explain ELISA	7

