

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Immunology & Clinical Microbiology

Subject Code : 4SC05ICM1

Branch: B.Sc.(Microbiology)

Semester : 5

Date : 28/03/2017

Time : 02:30 To 05:30

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.

Q-1	Attempt the following questions:	(14)
	a) Define antigen.	1
	b) What do you mean by antibody?	1
	c) Name primary lymphoid organs.	1
	d) What are types of T-Cells?	1
	e) What is Haemagglutination?	1
	f) What is the application of RIA?	1
	g) Which antibody is most abundant in our body?	1
	h) What is hinge region?	1
	i) What is the function of variable region?	1
	j) What is the function of IgM?	1
	k) What is the structural variation in IgA?	1
	l) Name monomeric immunoglobulins.	1
	m) Define Inflammation.	1
	n) Name any two specimen used in clinical microbiological examination.	1
Attempt any four questions from Q-2 to Q-8		
Q-2	Attempt all questions	(14)
	a) Write a note on Innate type of immunity.	7
	b) Enlist various factors influencing immunogenicity.	7
Q-3	Attempt all questions	(14)
	a) Write a note on acquired type of immunity.	7
	b) What are Antigen presenting cells? Describe their role	7
Q-4	Attempt all questions	(14)
	a) Write a note on Immuno-electrophoresis.	7
	b) Explain the technique of Western blotting for immunological application.	7
Q-5	Attempt all questions	(14)
	a) Write a note on Autoimmunity.	7
	b) What is Fluorescence? Explain its application in Immunology.	7



- Q-6** Write a note on Process of Hematopoiesis with figure and labels. **14**
- Q-7** **Attempt all questions** **(14)**
- a) Write a note on various epitopes and receptors present on immunoglobulins. **7**
 - b) Describe in detail about different cells and organs involved in immune system. **7**
- Q-8** **Attempt all questions** **(14)**
- a) Explain complement immune system briefly. **7**
 - b) Explain Hypersensitivity reaction in detail. **7**

