## C.U.SHAH UNIVERSITY Summer Examination-2019

## Subject Name: Generic Elective-IV (Medical Microbiology & Immunology)

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Subject Cod	le: 4SC04	IMMI1	Branch: B.Sc. (Mici	Branch: B.Sc. (Microbiology)		
Semester: 4	4	Date: 26/04/2019	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)	Give example of any two protozoan diseases.	1		
	<b>b</b> )	) All immunogens are antigens, but all antigens may not be immunogens.			
		True/ False.			
	<b>c</b> )	Give example of immune organ.(any two)	1		
	<b>d</b> )	Give the function of thymus.	1		
	<b>e</b> )	What is the site of maturation of T cell?	1		
	<b>f</b> )	Acyclovir is an antifungal agent. True/ False.	1		
	<b>g</b> )	Define: Pathogenicity.	1		
	<b>h</b> )	Old red blood cells are recycled in the lymph node. True/ False.	1		
	i)	Which type of immunoglobulin involved in allergy?	1		
	j)	What is the role of stem cell?	1		
	<b>k</b> )	Define: Adjuvant.	1		
	<b>l</b> )	What is agglutination?	1		
	m)	What is the shape of antibody?	1		
	n)	Give the full form of ELISA.	1		
Attemp	t any	four questions from Q-2 to Q-8			
Q-2		Attempt all questions	(14)		
C	a)	Write a brief note on bone marrow.	7		
	b)	Write a detail note on normal flora of skin and gastrointestinal tract.	7		
Q-3		Attempt all questions	(14)		
-	a)	Enlist the type of antibodies. Discuss the structure, properties and	7		
	,	function of Immunoglobulin M (Ig M).			
	b)	Write a detail note on ELISA method.	7		
Q-4		Attempt all questions	(14)		
c	a)	Explain causative agent, symptom, diagnosis, transmission, treatment of	7		
		any one bacterial disease.			
	b)	Discuss the characteristics of an antigen.	7		



Q-5		Attempt all questions	
	a)	Write down the details on nosocomial infection.	7
	b)	Define: Anti bacterial agent. Write a brief note any two antibacterial agents which inhibit cell wall synthesis with their mode of action.	7
		agents which minor cen wan synthesis with their mode of action.	
Q-6		Attempt all questions	(14)
	a)	Write down the Difference between primary and secondary immune response. (any 6 points)	7
	b)	Write down the function of following immune cells of immune system 1)B cell 2) Eosinophil 3)Dendritic cell 4)Mast cell	7
Q-7		Attempt all questions	(14)
	a)	What is Humoral immune response? Describe in detail.	7
	b)	Write a short note on type of T cell.	7
Q-8		Attempt all questions	(14)
	a)	Write a detail note on ELISPOT assay.	7
	<b>b</b> )	Write a short note on collection of clinical sample.	4
	<b>c</b> )	Differentiate Neutrophil and Basophil.	3

