	Enrollm	ent No:			Exam	Seat No:						
						ERSIT						
	Summer Examination-2016											
	Subject Name: Immunology & Clinical Microbiology											
	Subject Code: 4SC05ICM1			Branch: B.Sc.(Microbiology)								
	Semeste	r: 5	Date: 27/0	04/2016	Time	: 02:30 To 05:3	30	Marks: 70				
	(2) ] (3) ]	Use of Pro Instruction Draw neat	-	nain answer b figures (if ne	oook are stri	etronic instrume ctly to be obeye right places.	-	ibited.				
Q-1		Attempt	t the following	g questions					(14)			
	a)	What is	enitone?									
	<b>b</b> )		vo anatomic ba	arriers of non	specific hos	defenses.						
	c)		ell releases his		-							
	d)		diagram of B-l	ymphocyte.								
	e)		equilibrium?									
	<b>f</b> )		y two autoimi									
	g) h)		you mean by you mean by									
	i)		ytotoxicity.	vasodiaiatioi	1:							
	<b>j</b> )		monoclonal an	tibody?								
	<b>k</b> )		est is used to d	•	group?							
	1)		antiserum?									
	m)		you mean by	_	_							
	n)	Which d	isease can be o	diagnosed wi	th ELISA te	st?						
Atter	npt any	four ques	tions from Q-	2 to Q-8								
Q-2		Discuss	basic structure	of immunog	globulin. Des	scribe its various	s classes i	n detail.	(14)			
Q-3		Discuss	various technic	ques of agglu	itination and	its inhibition in	ı detail.		(14)			
Q-4	a)	_	t all questions		ell mediated	branches of im	miine eve	tem	(14) (7)			
Q-4	<b>a</b> )	_	_		ell mediated	branches of im	mune sys	tem.				

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Q-2		Discuss basic structure of immunoglobulin. Describe its various classes in detail.	(14)
Q-3		Discuss various techniques of agglutination and its inhibition in detail.	(14)
Q-4		Attempt all questions	(14)
	a)	Give an overview of humoral and cell mediated branches of immune system.	<b>(7)</b>
	b)	Discuss the differences between primary and secondary immune response in detail.	<b>(7)</b>



Q-5	Attempt all questions					
	a)	Discuss the technique of collection, transport and examination of sample of urine				
		and blood in detail.				
	<b>b</b> )	Describe various factors affecting immunogenicity in detail.	(7)			
Q-6		Attempt all questions	(14)			
	a)	Explain complement fixation pathway in detail with diagrams.	<b>(7)</b>			
	<b>b</b> )	Explain haematopoesis in detail with diagram.	<b>(7)</b>			
Q-7		Attempt all questions	(14)			
	a)	Describe in detail about delayed hypersensitivity	(5)			
	<b>b</b> )	Write a note on western blot test	(5)			
	<b>c</b> )	Write a short note on disposal of biological specimen.	(4)			
Q-8		Attempt all questions	(14)			
	a)	What is phagocytosis? How does it contributes to our resistant to pathogenic microorganism?	(5)			
	<b>b</b> )	Justify – chemokines as key mediators of inflammation.	(5)			
	c)	Write a short note on transplantation immunity.	(4)			

