	Enrollm	ent No: _		Exam Seat No:			
				H UNIVERSITY xamination-2018			
	Subject Name: Generic Elective-IV (Medical Microbiology & Immunology)						
	Subject Code: 4SC04MMI1			Branch: B.Sc. (Microbiology)			
	Semeste	r: 4	Date: 31/10/2018	Time: 10:30 To 01:30	Marks: 70		
	(2) I (3) I	Use of Pr Instructio Draw nea	ns written on main answ	& any other electronic instrument is proper book are strictly to be obeyed. If necessary) at right places.	hibited.		
Q-1	L	Attemp	ot the following question	ns:	(14)		
		Define Draw a What is What is Name t Expand What is Name t Define Expand Define four ques	structure of Immunoglol opportunistic infection? adjuvant? the function of Basophi he Ig that can cross place Ig the function of NK cell? Ifferent types of immuno he pentavalent immunog Agglutination ELISA Immuno-diffusion stions from Q-2 to Q-8	? 1? enta? ? oglobulins	(14)		
Q-2	a) b)	Write a Write a	ot all questions note on immune system note on Immunological phoresis	techniques : Agglutination & Immuno	(14) (7) (7)		
Q-3	a) b)	Write I ELISA ELISPO	orief notes on:		(14) (7) (7)		
Q- 4) a)	_	ot all questions the process of T cell ma	aturation, activation and differentiation	. (14) . (7)		



Discuss the following causative agent and symptom of given disease-

1- Tetnus

(7)

		2-Diptheria 3-Typhoid 4-Rubella 5-Mumps 6-Influenza flu 7-Candidiasis	
Q-5		Write short notes on:	(14
	a)	Immunoglobulins	(7)
	b)	Protozoan diseases	(7)
Q-6		Attempt all questions	(14
	a)	Explain the characteristics features of an Antigen.	(7)
	b)	Write a short note on primary and secondary immune organs.	(7)
Q-7		Attempt all questions	(14
	a)	Explain the mechanism by which antibacterial agents inhibit cell wall synthesis	(7)
	b)	Explain the mechanism by which antibacterial agents protein synthesis	(7)
Q-8		Attempt all questions	(14
-	a)	How clinical samples are collected & transported? Write a note on it.	(7)
	b)	Write short note on Host Pathogen Interaction	(7)
		<u> </u>	` ′

