(i) Prin	ted Pages: 4]	Roll No	
(ii) Que	estions : 9]	Sub. Code : 0 9 7	4
		Exam. Code : 0 0 3	5
B.Sc.		echnology 3rd Semeste amination	r
	melgadesi mis bak	1127	
		JNOLOGY-I OT-Sem-III-III-T	
Time: 3	B Hours]	[Max. Marks :	67
Note :-	Attempt five que	estions in all, of which question	on
	No. 1 is compulso	ory. Students are required to attem	pt
	at least two que	estions from each Section. Each	ch
	question carries e	qual marks.	
	(Compu	dsory Question)	
1. Expl	ain:		
(i)	Plasma cells		2
(ii)	Antigenic determi	nant site	2
(iii)	Rocket immunoele	ectrophoresis	2
NA-2	98	(1) Turn Ove	er

	(iv)	Prozone effect 2
	(v)	Follicular dendritic cells 2
	(vi)	Extravasation 2
	(vii)	Define Antigen. Explain immunological properties of antigen. 2
	(viii)	Enlist Antibodies involved in complement
		activation. 1
		Section-I
2.	Give	differences between the following:
	(a)	Exogenous and endogenous antigens.
	(b)	Innate and acquired immune system
31	(c)	Explain clonal nature of immune response. 4,4,5
3.	(a)	Write in detail about the activation and significance of cell mediated and humoral immune response.
	(b)	Explain the functions of macro-phages in
		immune response. $6\frac{1}{2} \times 2$
		Section-II
4.	(a)	Describe the structure and function of Thymus.

(2)

NA-298

(b)	How do cells of the innate immune system		
	recognize pathogens? Explain in detail. 6½×2		
(a)	Illustrate the structure of lymph node.		
(b)	Explain various cell adhesion molecules and		
	role in lymphocyte trafficking. 6½×2		
	Section-III		
Write notes on the following:			
(a)	Structure of an immunoglobulin giving a well		
	labelled diagram.		
(b)	Peptide binding by MHC molecules. 7,6		
(a)	Write in detail about antibody classes and		
	their biological activities.		
(b)	Compare the structure and function of Class I		
	and Class II MHC molecules in detail. 8,5		
	Section-IV		
Writ	e notes on the following:		
(a)	Radioimmunoassay		
(b)	Polo of HAT modium in Hybridama		

Technology.

5.

6.

7.

8.

- (c) Precipitation reactions and its various types used in disease diagnosis. 4,4,5
- 9. (a) Explain the significance of ELISA as immunotechnique.
 - (b) Describe Passive Agglutination and Agglutination
 Inhibition.