(i)	Pri	nted Pages: 2	Roll No			
(ii)	Qu	estions : 9	Sub. Code:	1 2 1 4		
			Exam. Code:	0 0 6 9		
		B.Sc. (	(Hons.) 3 <sup>rd</sup> Semester	$0.24 \text{ for } \{0\}$ $0.24 \text{ for } \{0\}$		
			1125			
		BIO	-TECHNOLOGY	•		
		Paper-BIOT-S	em-III-III-T : Immun	ology-I		
Tin	ne Alle	owed: Three Ho	urs] [Max	imum Marks : 67		
	· · j	is compulsory and	questions in all, includ d at least one question	ing Q. No. 1 which from each Unit.		
1.	Answer briefly:  (a) What molecules on the T cells help in T cell responses?					
	(a)			9		
	(b)	The state of the s	nces between innate and	acquired infillulity.		
	(c)	What is clonal a		C) (II)		
	(d)	(d) What is the inheritance of haplotype in context of MHC genes?				
	(e) ·	Name the secrete	etory immunoglobulin.			
	(f)	What important	nt role do the cytokines have?			
	(g)	What is antibody	y agglutination?			
	(h)	What is the differimmune respons	erence between humora se?	al and cell mediated		
	(i)	What is Immuno	ogenicity?			

1.5×10=15

(j)

Define hybridoma.

## UNIT-I

		OINI-I	
2.	(a)	Write a note on Hematopoiesis.	
	(b)	What is clonal expansion of B cells?	13
3.	(a)	Explain the different granulocytes and their role.	
	(b)	What is the role of the antigen presenting cells?	13
		UNIT-II	p
4.	(a)	Differentiate between primary and secondary lymphoid or	gans.
	(b)	What are the different types of Cell adhesion molecu	les?
			13
5.	(a)	What is the role of pattern recognition receptors?	
	(b)	What is the role of IgE and mast cells in allergy?	13
		UNIT-III	
6.	(a)	Write a note on structure of antibody.	
	(b)	Explain the peptide binding by MHC I and II.	13
7.	(a)	What are the different subclasses of IgG and functions?	their
	(b)	What is the role of regulation of MHC expression in dissusceptibility?	sease 13
		UNIT-IV	
8.	(a)	What are the applications of monoclonal antibodies	?
	(b)	How are antigen-antibody interactions used as too research and diagnosis?	
9.	Wri	te a note on antigen-antibody interactions with emphasis	on the
		ngth of interactions and cross reactivity.	13