(i) (ii)		Roll No				
B.Sc. (Hons.) Biotechnology 4th Semester (2053) IMMUNOLOGY-II Paper: BIOT-401-T						
Time	Allo	owed: Three Hours] [Maximum Marks: 6	7			
Note	:	Attempt five questions in all. Question No. 1 is compulsory. Select one question from each Unit.	y -			
1.	(a)	What is leucocyte trafficking?	2 .			
	(b)	What are polyclonal antibodies?	2			
	(c)	What is the principle of ELISA?	3			
	(d)	What is antibody affinity?	2			
	(e)	Define active immunization.	2			
	(f)	What is an adjuvant?	2			
	(g)	What are polysaccharide vaccines?	2			
		UNIT—I				
2.	(a)	Discuss the function of lg superfamily in cell adhesion.	7			
	(b)	Discuss role of cell surface proteins in immunological respon	se.			
			6			

3.	(a)	Discuss the process of Alternative Complement path va	y.
	(-)		7
	(b)	Describe the regulation of complement system.	6
		UNIT—II	
4.	Dis	cuss the hybridoma technique to produce monoclonal antibod	ies
			13
5.	(a)	Discuss principle, types and procedure for immunodiffusi	ion
			8
	(b)	Discuss the basis and applications of RIA.	5
		UNIT—III	
6.	(a)	Describe the roe of lgG in type I hypersensitivity.	7
	(b)	Discuss the causes and implications of type IV hypersensitive	vity
			6
7.	(a)	Discus the causes and symptoms of Myasthenia gravis.	6
	(b)	Describe the features of Insulin dependent Diabetes mellit	us.
			7
		UNIT—IV	
8.	(a)	Discuss the clinical manifestations of graft rejection.	7
	(b)	Explain the role of immunological tolerance in transplantati	on.
			6
9.	(a)	Discuss the principle and advantages of DNA vaccines.	6
	(b)	Discuss the basis and impact of immunization programs.	