BIOTECHNOLOGY (Immunology)

		Paper-III (Semester-V)	
	Time	: Three Hours	aximum Marks: 70
	Note	: Attempt two questions each from Section A and B. Attempt all questions	in Section C.
		Section - A	
	I.	Describe various cells involved in passive immunity.	12
	II.	Write a detailed account on Electrophoresis.	12
	III.	Write a detailed account on structure and function of Immunglobulins.	. 12 12
	IV.	Write a detailed account on Immunofluorescence.	12
		Section - B	
1	V.	Write an account on the hypersentivity.	12
	VI.	Describe in detail production and applications of monoclonal antibodies.	12
1	VII.	Compare and conventional and modern vaccaines with suitable examples.	12 12
1	VIII.	Describe in detail the process of transplantation and graft rejection.	. 12
		Section - C	
	IX.	Write short notes ion the following:	
		(a) Positive selection in the thymus occurs when thymocytes express fu	nctional versions of
		which critical molecule?	C 4 1 412
		(b) Which cytokine is essential for T-Cell proliferation and is also necessa	ry for the production
		of CD25-positive regulatory T cells?	
		(c) Who developed humoral theory?	
		(d) What are antitoxins?	
		(e) What is anaphylaxis?	
		(f) What is immunoassay?	
		(g) What is hematopoiesis? (h) What is opsonin?	
		(i) What is primary response ?	
		 (e) What is anaphylaxis? (f) What is immunoassay? (g) What is hematopoiesis? (h) What is opsonin? (i) What is primary response? (j) What is the difference between plasma and lymph? 	2x11=22
		() What is the difference between plasma and tymph :	
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	12		