Registration No. :											
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Total number of printed pages - 2

B. TECH

PCBT 4301

Fifth Semester (Back/Special) Examination – 2013 IMMUNOLOGY AND IMMUNOTECHNOLOGY

BRANCH: BIOTECH
QUESTION CODE: D 256

Full Marks - 70

Time: 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

Answer the following questions :

2×10

- (a) Name two primary and secondary lymphoid organs present in human.
- (b) What are memory cells and how do they participate in immune response?
- (c) What do you mean by hapten? What is its significance?
- (d) Name two immunoglobulin secreted in mother's milk and human saliva.
- (e) What is allelic exclusion and how it is regulated?
- (f) Which type of immunodeficiency is expected in person whose spleen is removed?
- (g) Name two immunoproliferative diseases of human
- (h) What do you mean by graft versus host reaction
- (i) What is ADCC?
- (j) What do you mean by dysfunction of immune system?
- Write short notes on :

5×2

- (a) Antigen Antibody reaction
- (b) APC.

3.	Diffe	erentiate between:	5×2					
	(a)	Innate and Adaptive immunity						
	(b)	Polyclonal and Monoclonal Antibody.						
4.	Wha	at are MHC molecule? Explain the structure and function of Class I and Class HC molecules.						
5.	Writ	te short notes on :	5×2					
	(a)	Synthesis and secretion of antibody molecule						
	(b)	Immunological tolerance.						
6.	(a)	Briefly explain the various causes of autoimmune diseases.	5					
	(b)	Briefly explain the genetic basis of antibody diversity	5					
7.	Brie	fly Explain :	5×2					
	(i)	DNA vaccine						
	(ii)	MAC. CENTRAL LIBRARY						
8.	Write	e short notes on any two of the following :	5×2					
	(a)	Passive Immunity						
	(b)	Antibody class						
	(C)	T-cell receptor						
	(d)	Phagocytosis.						