(a)	Therapeutic	uses	of	mab.		

- (b) Role of tumor suppressor genes. 5
- (c) Various phages of tumour immunosurveillance.
- (d) Example of ELISA based immunodiagnostics.

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First Semester M.Sc. (CBCS Scheme) Examination

BIOTECHNOLOGY

Paper - IV Biology of Immune System 1BTB-4/BT104

P. Pages: 4

Time: Three Hours] [Max. Marks: 100

Note: (1) All questions are compulsory and carry equal marks.

- (2) Draw well labelled diagrams whenever necessary.
- Describe in detail the phylogeny of immune system. Write a note on each type of immunity with their specific role in life span.

OR

What are antibodies? Write a detail note on their types, structure and functions of each. 20

- Discuss the following:-
 - (a) Characteristics of Polymorphonuclear (PMN) leucoytes.

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(b) Structure and function of dendritic cells. 5		(b) Hyperacute rejection of organ transplantation
(c) Importance of immunological memory. 5		
(d) Lymphocyte trafficking. 5		(c) Role of mast cell degranulation in allergy
OR		(d) Specific and nonspecific immunity for
(a) Types of major lyeuphoid organs. 5		helminthes.
(b) T cell-receptors. 5		OR
(c) Importance of Antigen presenting cells (APC).		(a) Skin testing method for allergens.
(d) Consequences of Antigen and Antibody		(b) Types of organ transplants.
binding. 5		(c) Characteristics of delayed type of hypersensitivity.
What is Complement System and the components associated with it? Write in detail about Alternative complement pathway of complement system.		(d) Types of immunosuppressive drugs used treat transplant rejection.
OR		5. Write notes on following.
What are major histocompatibility complex (MHC)? Write in detail the types of MHC. molecules with their peptide interactions.		(a) Differentiate between benign and maligna tumor.
inotecties with their peptide interactions.		(b) Applications of synthetic vaccines.
Discuss the following :-		(c) Structure of retrovirus HIV-I virion.
(a) Gell and Coomb's classification of hypersensitivity reaction.		(d) HAT selection of mab.
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