

Model Question Paper-2 with effect from 2019-20 (CBCS Scheme)

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Fourth semester B.E Degree examination Immunotechnology

Time:03 Hours

Max marks:100

Note: Answer any FIVE Full questions, choosing at least ONE question from each MODULE

Module-1			*Bloom's Taxonomy level	Marks
Q.01.	a.	Define Innate immunity and add a note on its characteristics	L1	08
	b.	What are Isotypic and Allotypic immunoglobulins	L1	06
	c.	Name and explain the cells mediating inflammatory response of Immune system	L1	06
OR				
Q.02.	a.	Illustrate the typical structure of Lymph node and add a note on its functions	L2	08
	b.	Compare Allotypes and Idiotypes	L2	06
	c.	What are B cells?	L1	06
Module-2				
Q.03.	a.	Explain the activation of T-Lymphocytes	L2	08
	b.	Identify the role of Cytokines in the immune system	L3	06
	c.	Explain Antigen processing and presentation	L2	06
OR				
Q.04.	a.	Illustrate the Production of Monoclonal Antibodies and add a note on their applications	L2	08
	b.	Summarize the importance of Phagocytes	L2	06
	c.	Compare the role of different cytokines in the immune system	L4	06
Module-3				
Q.05.	a.	Justify the role of Complement system through different pathways in forming Membrane attack complex	L5	08
	b.	Choose any two common Autoimmune disorders and explain	L3	06
	c.	Outline the Immune response to Viruses	L2	06
OR				
Q.06.	a.	Explain the type II Hypersensitivity reactions	L2	08
	b.	Identify the role of HIV in causing Secondary immunodeficiency disorder AIDS	L3	06
	c.	List out the importance with a brief note on subunit	L4	06

		Vaccines		
Module-4				
Q.07.	a.	Define and explain Grafts and types	L2	08
	b.	Identify the role of MHC in Allograft rejection	L3	06
	c.	Explain Hematopoietic stem cell transplantation	L2	06
OR				
Q.08.	a.	List out the advantages and disadvantages of Immunosuppressive therapy with examples	L4	08
	b.	Explain on tumor antigens	L2	06
	c.	Summarize the methods of Tumor Immunotherapy	L2	06
Module-5				
Q.09.	a.	Illustrate the method and variants of ELISA technique with applications	L3	08
	b.	Explain Radioimmuno assay	L2	06
	c.	Compare Precipitation and Agglutination reactions	L4	06
OR				
Q.10.	a.	Illustrate the Western blotting technique with applications	L3	08
	b.	Explain Fluorescent Associated cell sorting (FACS)	L2	06
	c.	Identify the role of ABO Blood typing	L3	06