Exam Date & Time: 09-Sep-2021 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Immunotechnology [PBT-MPB202T]

	Immunotechnology [PBT-MPB202T]		
	Marks: 75	Duration: 180	mins.
		SECTION - A	
	Answer all the questions.		
	Answer the following (10 marks $x = 50$ marks)		
	1)	Discuss how natural immunity helps in preventing natural infections.	(10)
	2)	Schematically represent and explain the structure of antibodies. Elaborate on the various classes of immunoglobulins.	(10)
	3)	Classify vaccines based on the type of immunogens used in the preparation. Citing suitable examples, discuss 'Whole Organism Vaccines'.	(10)
	4)	Sketch the sequence of events that occurs with generation of malignancy and metastasis. Add a note on common human infectious carcinogens.	(10)
	5)	Explain the mechanism of selection of hybridomas from mixed population of cells.	
			(5)
	A)		(3)
	B)	What is Immunofluorescence assay? Enlist their types and explain about any one in detail.	(5)
		SECTION - B	
	Answer all tl		
Answer the following (5 marks \times 5 = 25 marks)			
	6)	Inflammation is considered as a step in our immune protection. Describe the steps involved in acute inflammatory condition.	(5)
	7)	Classify lymphoid system. Explain the structure and functions of primary lymphoid organs.	(5)
	8)	Define Epitope and Dendritic cells. Enlist the types of T cells and a note on central role of any one.	(5)
	9)	Elaborate on 'Antibody-Antigen interactions'.	(5)
	10)	"The better matched the donor and recipient are, the more successful the transplantation is likely to be". What are the ways through which a matching donor is found for the recipient?	(5)

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