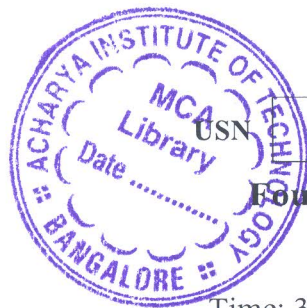


CBCS SCHEME

BBT403



Fourth Semester B.E./B.Tech. Degree Examination, June/July 2024
Immunotechnology + Lab

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

Module - 1			M	L	C
Q.1	a.	What is non-specific immunity, explain with their types of barriers.	10	L1	CO1
	b.	Explain the acquired immunity process with their different forms.	10	L2	CO1
OR					
Q.2	a.	Mention the functions and structure of IgG.	10	L2	CO1
	b.	Distinguish between Basophils and Eosinophils with a neat labeled diagram.	10	L2	CO1
Module - 2					
Q.3	a.	Explain the process of activation of T cells in response to antigen.	10	L2	CO1
	b.	Enumerate the structural difference between MHC class I and MHC class II receptors.	10	L2	CO1
OR					
Q.4	a.	What are polyclonal antibodies? How are they produced?	10	L1	CO1
	b.	Explain the process of antigen processing and presentation of endogenous antigens.	10	L2	CO1
Module - 3					
Q.5	a.	Discuss type I and type II hypersensitivity reactions with neat diagram.	10	L2	CO2
	b.	Explain secondary immuno deficiency disorder in detail with example.	10	L2	CO2
OR					
Q.6	a.	How does complement system gets activated by an classical pathway? Mention events in detail.	10	L1	CO2
	b.	What are vaccines? Discuss the properties of ideal vaccines.	10	L1	CO2
Module - 4					
Q.7	a.	Describe the process of graft rejection and mention about their stages in detail.	10	L2	CO2
	b.	Write short notes on: i) Immunogenic basis of graft rejection ii) Allograft transplantation.	10	L2	CO2

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OR				
Q.8	a.	Give an account on tumors of immune system and tumor antigens.	10	L2 CO2
	b.	Discuss in brief about i) Immunosuppressive drugs ii) Tissue typing.	10	L2 CO2
Module – 5				
Q.9	a.	What is FACs? Write a note on its applications.	10	L1 CO3
	b.	Explain the process of blood grouping highlighting about its antigens.	10	L2 CO3
OR				
Q.10	a.	Discuss the process of immuno electrophoresis.	10	L2 CO3
	b.	Elaborate on principle, procedure and applications of radio immune assay.	10	L2 CO3
