

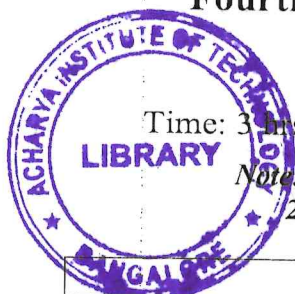
CBCS SCHEME

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BBT403

Fourth Semester B.E./B.Tech. Degree Examination, June/July 2026 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.	Discuss on cells of the Immune system in brief.	10	L1	CO1
	b.	Illustrate the structure and functions of IgA and IgG with neat sketches.	10	L2	CO1
OR					
Q.2	a.	Explain the role of Humoral and cell mediated immunity.	10	L1	CO1
	b.	Summarize the structure and biological functions of thymus.	10	L2	CO1
Module – 2					
Q.3	a.	Illustrate the activation of T – Lymphocytes and their role in the Immunity.	10	L2	CO1
	b.	Recall the protocol for the production of Monoclonal antibodies and applications.	10	L3	CO2
OR					
Q.4	a.	Compare the structure of Major histocompatibility complex molecules I and II.	10	L2	CO1
	b.	Outline the Antigen processing and presentation.	10	L3	CO2
Module – 3					
Q.5	a.	Discuss the different pathways of compliment activation and its functions.	10	L2	CO2
	b.	Explain the hypersensitivity and its classification with examples.	10	L2	CO2
OR					
Q.6	a.	Summarize the Immuno deficiency disorders with an example.	10	L2	CO2
	b.	Explain Auto immune disorders with examples.	10	L2	CO2
Module – 4					
Q.7	a.	Illustrate the transplantation and its classification with examples.	10	L2	CO1
	b.	Write notes on : i) Graft rejection ii) HSC transplantation	10	L2	CO2
OR					
Q.8	a.	Discuss on Tumor antigens and Immune response to tumors.	10	L2	CO1
	b.	Write note on : i) Immunosuppressive therapy ii) Role of MHC in graft rejection	10	L2	CO2
Module – 5					
Q.9	a.	Recall the protocol of Western blotting analysis with applications.	10	L3	CO3
	b.	Illustrate the types of ELISA technique with their applications.	10	L3	CO3
OR					
Q.10	a.	Compare the techniques of Radio immune assay and Immuno fluorescence.	10	L3	CO3
	b.	Outline the role of stem cell technology in immunology.	10	L3	CO3

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