

BCF-003-1015009 Seat No. _____

B. Sc. (Sem. V) (W.E.F. 2010) Examination

August - 2021

MB - 501 : Microbiology

(Immunology and Medical Microbiology) (New Course)

Faculty Code: 003

Subject Code: 1015009

Tim	e : 2	[Total Marks :	70
Inst	truct	ion: Answer any five questions out of ten.	
1	(A)	0	4
		(1) Give types of natural immunity.	
		(2) Define Herd Immunity.	
		(3) Which organs are known as primary lymphoid organs?	
		(4) Write full form of CALT, GALT.	
	(B)	Answer in brief:	2
		Explain: Macrophage	
	(C)	Answer in detail:	3
		Give details about phagocytosis.	
	(D)	Write short note on:	5
		MALT	
2	(A)	Answer the following:	4
		(1) What is Immunity?	
		(2) is the maturation site of T-cell.	
		(3) What is naturally acquired passive immunity?	
		(4) Write full form of APC.	
	(B)	Answer in brief:	2
		Write a note on NK cells.	

	(C)	Answer in detail:	3
		Explain in detail: stem cell.	
	(D)	Write short note on:	5
		Give the difference between B cell and T cell.	
3	(A)	Answer the following in short.	4
		(1) Define Opsonizing.	
		(2) Give the full form of MHC molecules.	
		(3) MHC Class I antigen presented to	
		(4) Enlist the name of phagocytic cells.	
	(B)	Answer in brief:	2
		Give the difference between Humoral and cell mediated	
		immunity.	
	(C)	Answer in detail:	3
		Explain MHC molecules.	
	(D)	Write short note on:	5
		Write about T cell activation.	
4	(A)	Answer the following in short:	4
		(1) Define complement system.	
		(2) Give full form of TNF.	
		(3) What are interleukeins?	
		(4) receptor is found on T_H cell.	
	(B)	Answer in brief:	2
		Define immune response and explain its types.	
	(C)	Answer in detail:	3
		Write about killing mechanism of CTLS and NK cells.	
	(D)	Write short note on:	5
		Explain: Cytokines	
5	(A)	Answer the following in short:	4
		(1) What are antigens?	
		(2) What is immunogenicity?	
		(3) Enlist various classes of immunoglobulin.	
		(4) What is epitop?	
	(B)	Answer in brief:	2
		Write a note on adjuvant.	
BCI	F-003	-1015009] 2 [Con	td

	(C)	Answer in detail:	3
		Describe IgM.	
	(D)	Write short note on:	5
		Explain Monoclonal Antibodies.	
6	(A)	Answer the following in short:	4
		(1) Antibodies are made up of	
		(2) Heavy chain consists of amino acid.	
		(3) Give full form of CDRs.	
		(4) Which immunoglobulin is found in trace amounts	
	(D)	in blood serum ?	2
	(B)	Answer in brief:	2
	(a)	Describe IgE.	•
	(C)	Answer in detail:	3
		Write about light chain and heavy chain of	
	(D)	immunoglobulin.	_
	(D)	Write short note on:	5
		Antibody diversity and clonal selection theory.	
7	(A)	Answer the following in short:	4
		(1) What is immunodeficiency?	
		(2) How immunodeficiency can be classified?	
		(3) Give the full form of GVHD.	
		(4) What is SCID ?	
	(B)	Answer in brief:	2
		Explain mechanism of anaphylaxis.	
	(C)	Answer in detail:	3
		Write in detail about types of transplants.	
	(D)	Write short note on:	5
		Explain tumor antigens.	
8	(A)	Answer the following in short:	4
		(1) Give full form of ADCC.	
		(2) How are secondary immunodeficiencies categorized?	
		(3) Write full form of AIDS.	
		(4) Contact hypersensitivity reaction time is	
		hours.	
\mathbf{BC}	F-003	-1015009] 3 [Contd	

	(B)	Answer in brief:	2
		Define Hypersensitivity.	
	(C)	Answer in detail:	3
		Discuss mechanisms of Graft rejection.	
	(D)	Write short notes on:	5
		Autoimmune diseases.	
9	(A)	Answer the following in short:	4
		(1) What is Acute infection?	
		(2) What is nosocomial infection?	
		(3) What is vehicle transmission?	
		(4) Define Normal flora.	
	(B)	Answer in brief:	2
		What is pathogenicity?	
	(C)	Answer in detail :	3
		Normal flora of Gastrointestinal tract.	
	(D)	Write a note on:	5
		Natural Resistance.	
10	(A)	Answer the following in short:	4
		(1) What is chronic infection?	
		(2) What is primary infection?	
		(3) Explain the term opportunistic infection.	
		(4) harbors the pathogens but has never	
		suffered from disease caused by it.	
	(B)	Answer in brief:	2
		Write about Host-Microbe interactions.	
	(C)	Answer in detail :	3
		Write about routes of transmission of infection.	
	(D)	Write short note on:	5
		Normal flora of a healthy human host.	