Seat No. :	:	
Sec. 1 101 1	•	

## **AD-129**

## April-2023 B.Sc., Sem.- VI

## CC-309: Biochemistry

## (Immunology)

Time: 2:30 Hours]			[Max. Marks: 70	
Instr	uctio	ns: All questions carry equal marks.		
1.	(A)	Write a note on organs of immune system.	8	
	(B)	What is the effect of followings on host system?	6	
		(1) Leucocidin.		
		(2) Hyaluronidase.		
		(3) Protein A		
		OR		
	(A)	Discus the mode of action of: (1) Tetanus toxin (2) Cholera toxin	8	
	(B)	State six differences between Endotoxin and Exotoxin.	6	
2.	(A)	Explain: Mode of action of interferon.	6	
	(B)	Describe alternative pathway of complement activation.	8	
		OR		
	(A)	Explain: Inflammatory response as a defense mechanism of host.	8	
	(B)	Write differences between Humoral and cell mediated immune resp	ponse. 6	
3.	(A)	Discuss: Precipitin curve of antigen & antibody reaction.	7	
	(B)	Explain: Agglutination inhibition reaction with example.	7	
		OR		
	(A)	What is RIA? Discuss in detail.	7	
	(B)	Explain Hybridoma technique and state its two applications.	7	
4.	Writ	e a note on : (ANY <b>TWO</b> )	14	
	(1)	Type II hypersensitivity		
	(2)	Recombinant vaccine and its uses		
	(3)	Types of Graft rejection and the mechanism of rejection		
	(4)	Type IV Hypersensitivity		
AD-1	129	1	P.T.O.	

- 5. Answer the followings : (ANY **SEVEN**)
  - (1) Define: (1)  $LD_{50}$  (2) Primary pathogen
  - (2) What is Toxoid? How it is prepared?
  - (3) What is an endogenous pyrogen? Give an example.
  - (4) In which body fluids lysozyme is present? Where it acts?
  - (5) Name the sugar and protein of MBL.
  - (6) What is an adjuvant? Give an example.
  - (7) Define: (1) Affinity (2) Avidity
  - (8) What is Passive immunization? Give one example.
  - (9) Sate the full form of ELISA and name the enzyme used in this technique.
  - (10) Define vaccine and state the full form of MMR.
  - (11) What is Allograft and Isograft?
  - (12) Define Hypersensitivity. Give an example of Type III hypersensitive reaction.

14

AD-129 2