Seat No.:	
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## **AD-106**

## April-2016

## B.Sc., Sem.-VI

**CC-309**: Biochemistry

Time: 3 Hours] [Max. Marks: 70				
<b>Instructions:</b> (1) All questions carry equal marks.				
		(2) Draw diagram where it is necessary.		
1.	(a)	Write a note on: Cells and organs of immune system.	7	
	(b)	What are endotoxins? Discuss their mode of action.	7	
	OR			
	(a)	) Discuss: Microbial enzymes as virulence factor. 7		
	(b)	Write differences between endotoxin and exotoxin.	7	
2.	(a)	Discuss inflammatory response as a host defense mechanism. 6		
	(b)	What are complements ? Discuss : Alternative pathway of complement activation.	8	
		OR		
	(a)	Explain: Mechanism of action of interferon.	6	
	(b)	Write a note on structure & functions of Immunoglobulin. List various types of Igs.	8	
3.	3. Explain: (any <b>two</b> )		14	
	(1)	Agglutination inhibition test		
	(2)	Compliment fixation test		
	(3)	Radioimmunoassay technique		
		OR		
Explain: (any <b>two</b> )		14		
	(1)	Type I Hyper sensitive reaction		
	(2)	Hybridoma technique		
	(3)	Immunoelectrophoresis		
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4.	Write a note on: (any <b>two</b> )		
	(1)	Specialized transduction	
	(2)	Chromosome mapping	
	(3)	Congugation & F <sup>-</sup> X Hfr	
5.	Ans	wer the following:	
	(1)	Define: Invasiveness. B. Secondary pathogen.	2
	(2)	What is active & passive immunization?	2
	(3)	What is interferon? List various types of interferon.	2
	(4)	Define adjuvant with example.	2
	(5)	Which immune response is faster primary or secondary? Why?	2
	(6)	What is antibody titer?	1
	(7)	List two applications of ELISA.	2
	(8)	What is an epitop?	1

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