•	(a)	Describe the clinical significance of enzymes,			
		lipase, amylase, SGOT, SGPT, LDH and CPK.			
	(b)	Discuss clinical significance of SGOT.			
	(c)	What are importance of SGPT? Give its norma			
		range.			
		OR			
	Exp	lain in brief:			
	(p)	Hyperglycemia.			
	(q)	Glycogen storage disease.			
	(r)	Lipid malabsorption.			

В	Sc.	(Part–III) Semester – VI Examina	ition							
		6S: BIOCHEMISTRY								
(Immunology and Clinical Biochemistry)										
Time: T	Hours] [Maximum	Marks: 80								
Note :-	(1)	ALL questions are compulsory and carry equal marks except Q.No. 1 which carry 8 marks.								
	(2)		r necessary.							
1. (A)	Fill	in the blanks:								
	<b>(i)</b>	RIA stands for	1/2							
	(ii)	Serum sickness is an example ofhypersensitivity.								
	(iii)	is the pentainer antibody.	1/2							
	(iv)	•								
(B)	Tru	e or false :	/2							
	(i)	Anaphylaxis is an example of immed of hypersensitivity.	diate types							
	(ii)									
	(iii)	Hapten is peritial antigen.	1/2							
-	(iv)									
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(C)	Answer in one sentence :		4.	Disc	Discuss in detail the mechanism of classical pathway			
	(a) What are monoclonal antibodies?	1		of co	omplement.	12		
	(b) Give long form of ELISA and CSF.	1			OR			
r	(c) What is Normality?	1		Wha	What is hypersensitivity? Explain one example of			
		1		each	Type I, II, and III hypersensitivity.	12		
<u>.</u>	(d) What are isoenzymes?	1	5.	Disc	Discuss in brief:			
2. (a)		4		(a)	Basic requirements of a clinical laboratory.	4		
(b)	Give structure and functions of IgM.			(b)	Advantages of auto analyzer.	4		
(c)	Mention properties of antibodies.	4		(c)	Manual versus automation in clinical laboratory	. 4		
	OR			OR				
Ex	plain :			(p)	Describe quality control.	4		
(p)	Factors required for antigenicity.	4		(q)	Define standard solutions. How are they	pre		
(q)	Natural passive immunity.	4			pared?	4		
(r)	Humoral immunity.	4		(r)	Give defination and scope of clinical I	io-		
3. (a)	What is agglutination ?	4			chemistry.	4		
(b)			6.	. Exp	lain the following:	_		
(0)	peserior die various approaches of aggression	4		(a)	Collection and preservation of biological fluids	. 6		
(c)	Discuss complement fixation.	4		(b)	Chemical analysis of blood and CSF.	6		
3.57	OR				OR			
Gi	ve a brief account of:	*		*				
(p)		4		(p)	Clearence test for urea and its significance.	6		
(q)				(q)	Commonly used SI units in clinical laboratories	s. 6		
(r)		4	4					
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