P.T.O.

Total No. of Questions: 8]		SEAT No:	_
P 1950	[5324]-302	[Total No. of Pages	:2
	M.Sc.		
	BIOCHEMISTRY		
BCH - 371 : Med	dical Biochemistry an	d Immunology	

(2013 Pattern) (Semester-III) (Credit System)

Time	2:3	Hours] [Max. Marks	: 50
Instr		ons to the candidates:	
	<i>1</i>)	Neat labelled diagrams must be drawn wherever necessary.	
	<i>2</i>)	Figures to the right indicate full marks.	
	<i>3</i>)	Question 4 & 8 are compulsory.	
	<i>4</i>)	Solve any two question from Q. No. 1 to 3 and any two questions from Q. No. 5	to 7.
		SECTION-I	
		(Medical Biochemistry)	
Q 1)	At	tempt the following:	
	a)	Write in brief about anti fungal drugs.	[2]
	b)	Write a note on mycobacterium & enlist antibiotics used against it.	[4]
	c)	Describe the life cycle of influenza virus.	[4]
Q 2)	An	swer the following:	
	a)	Give the type of mutation seen in sickle cell anaemia be thatering.	[2]
	b)	Explain in detail extrinsic and intrinsic mechanism of apoplosis.	[4]
	c)	Elaborate on puronycin and streplonycine.	[4]
Q 3)	An	swer the following:	
	a)	What are hemoglobinopathies.	[2]
	b)	Explain the mode of action of antibiotics that inhibit the biosynthesi cell wall with example.	s of [4]
	c)	Explain LSD.	[4]

Q4)	Ans	wer any one of the following: [5	[]
	a)	Describe critically the interpretation of diagnosis of the following enzyments in serum.	e
		i) LDH	
		ii) Creatinine kinase	
		iii) Aspartate transaminase	
	b)	Describe the concept of programmed cell death.	
		SECTION-II	
		(<u>Immunology</u>)	
Q 5)	Ans	wer the following:	
	a)	List out antibodies (IgG) with its special function. [2]	[,
	b)	Classify immuno diffusion techniques and elaborate on the procedure of any one technique. [4]	
	c)	Discuss the etiology and development of AIDS. [4	.]
Q6)	Ans	wer the following:	
	a)	Give the mechanism of phagocytosis. [2	[]
	b)	Explain hypersensitivity reactions in detail. [4	.]
	c)	Enlist the different types of immunity generated in body and explain the correlation between humeral and acquired immunity. [4]	
Q 7)	Ans	wer the following:	
	a)	Explain primary lymphoid organ. [2	<u>'</u>]
	b)	Describe the principle of Immuno fluorescence and give its uses. [4	.]
	c)	Elaborate on the mechanism of development of any one auto immundisease. [4]	
Q 8)	Ans	wer any one of the following:	
	a)	Differentiate between the characteristic feature and production of monclonal & polyclonal antibodies. [5]	
	b)	Explain vaccination principle with live and attenuated vaccines. [5]	;]
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