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Total	No.	of Questions : 8] SE	SEAT No. :				
P1515		[5224]-401	[Total No. of Pages : 2				
		M.Sc.					
BIOCHEMISTRY							
	B	BCH - 470 : Physiological Biochemistry and E	Indocrinology				
		(2013 Pattern) (Semester - IV) (Credit					
T:	. 2 11		• ,				
		Iours] ns to the candidates:	[Max. Marks : 50				
111311	1)	Answer to both the sections should be written on separ	rate sheets.				
	2)	Question no. 4 and 8 are compulsory.					
	3)	Attempt any two questions from Q. 1 to Q. 3 and any to	wo from Q. 5 to Q. 7.				
	4)	Figures to the right indicate full marks.					
		SECTION - I					
		Physiological Biochemistry					
Q1)	Ans	swer the following:					
	a)	Write the anatomy of liver.	[3]				
	b)	Explain the diagnostic tests of kidney.	[3]				
	c)	What is the role of pepsin? Why is it secreted in	an inactive form. [4]				
Q2) .	Atter	mpt the following:					
	a)	What are the major parts of a nephron.	[2]				
	b)	Write the principles of gaseous exchange during	respiration. [4]				
	c)	What are the digestive functions of the component					
<i>Q3</i>).	Ansv	wer the following:					
	a)	What is the major chemical difference between justification.	plasma and glomerular [3]				
	b)	How are the major salivary glands distinguished of	on the basis of location?				
	c)	Explain any four functions of the liver.	[3] [4]				

Q4) Attempt any one of the following:

- Define acidosis & alkalosis. Distinguish among respiratory and metabolic acidosis & alkalosis.
 [5]
- b) Describe the overall processes of digestive system. [5]

[5]

SECTION - II

Endocrinology

			Litaocimology			
Q5)	5) Attempt the following:					
	a)	What are target cells of hormones?		[2]		
	b)	Giv	e the classification of anterior pituitary hormones.	[4]		
	c)	Wri	te short notes on adenyl cyclase and its significance.	[4]		
Q6)	Ansv	wer t	he following:			
	a)	Wha	at is the function of thyroglobulin?	[2]		
	b)	Exp	lain the difference between T_3 and T_4 .	[3]		
	c)	Wha	at are secondary messengers and explain their role?	[5]		
Q 7)	Atte	mpt t	he following:			
	a)	Exp	lain the role of glucagon in carbohydrate metabolism.	[3]		
	b)	What is ACTH? What happens if ACTH levels increases?		[3]		
	c)	Wri	te a note on "Hormonal Inter - relationship" with example.	[4]		
Q8)	Ansv	wer a	any one of the following:			
	a)	What are hormones? Give their classification based on				
		i)	Their chemical properties			
		ii)	Secretion by different cells			
		iii)	Mode of action.	[5]		



Describe the factors involved in the regulation of synthesis of

mineralocorticoids.