# 0808

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3 H	ours /	80	Marks	Seat	No.							
Instr	ructions –	(1)	All Questions	are Comp	oulsory.							
		(2)	Answer each	next main	Questio	on o	n a	n ne	ew	pag	e.	
		(3)	Illustrate your necessary.	answers	with nea	ıt sk	tetc	hes	wł	nere	ver	
		(4)	Figures to the	right ind	icate ful	1 m	ark	s.				
		(5)	Assume suitab	ole data, it	f necessa	ary.						
		(6)	Use of Non-p Calculator is	•		troni	ic 1	Poc	ket			
		(7)	Mobile Phone Communicatio Examination I	n devices	•							
										]	Ma	rks
1.	Attempt	t any	EIGHT of th	ne followii	ng:							16
a)	Define t	he te	rms biochemis	try and bi	omolecul	les.						
b)	Define e	enzyn	ne inhibition?	Give its ty	pes.							
c)	Give ph	ysiolo	ogical role of s	sodium in	body.							
d)	Define t	he te	rms Throbocyt	hemia and	Lympho	ocyt	osi	5.				
e)	Draw st	ructur	es of Fructose	and Man	nose.							
f)	Write te	sts fo	or detection of	glucose in	n Urine.							

- g) Define essential fatty acids? Draw structure of any one.
- h) Define ketonemia. How it occurs?
- i) Name deficiency disorder of Niacin and give its signs and symptoms.

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- j) Define Isoelectric point of amino acids.
- k) Define Holoenzymes and Multienzymes.
- 1) Draw a well labelled diagram of a typical animal cell.

#### 2. Attempt any <u>FOUR</u> of the following:

- a) Define and classify carbohydrates with example of each class.
- b) Draw structure of cholesterol and give its colour reactions.
- c) Describe acid base properties of amino acids.
- d) Explain Koshland theory of enzyme action.
- e) Write functions of blood and briefly describe its composition.
- f) Enlist abnormal constituents of urine and give their significance.

#### 3. Attempt any FOUR of the following:

- a) Define and classify minerals with examples.
- b) Explain water balance of normal individual.
- c) Describe role of vitamin A in vision cycle.
- d) Briefly describe denaturation of proteins.
- e) Enlist factors affecting rate of enzyme catalysed reaction and explain effect of substrate concentration on the rate.
- f) Give structure, physiological functions and deficiency disorders of Thiamine.

#### 4. Attempt any FOUR of the following:

- a) Define and classify proteins with examples.
- b) Describe Mucosal block theory of iron absorption.
- c) Explain the terms Acid value and Iodine number of Lipids with their significance.
- d) Write Barfoed's test and give its significance and principle.
- e) Briefly describe diagnostic applications of enzymes.
- f) Define Mutarotation. Explain how it occurs.

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			Marks
5.		Attempt any <u>FOUR</u> of the following:	12
	a)	Define and classify enzymes.	
	b)	Describe secondary structure of proteins.	
	c)	Write biological role of calcium and give its deficiency disorders.	
	d)	Explain structure of starch.	
	e)	What is anemia? Give its types and explain Megaloblastic anemia.	
	f)	Name protein deficiency disorders? Explain any two.	
6.		Attempt any <b>FOUR</b> of the following:	16
	a)	Define lipids and give classification of lipids.	
	b)	Explain $\beta$ -oxidation of unsaturated fatty acids.	
	c)	Draw shapes of various osazones of carbohydrates and write reaction involved in osazone formation of Glucose.	
	d)	Describe the steps involved in Glycolysis and give its energetics.	
	e)	Describe biological role and deficiency disorder of Riboflavin and Folic acid.	n
	f)	Explain "oxidative deamination". And transamination of	

f) Explain "oxidative deamination". And transamination of amino acids.

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