AMEDIATE AND		-1-		
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Answer Sheet No	
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Hudent Bounty Com

ELEMENTARY CHEMISTRY AND CHEMICAL PATHOLOGY HSSC-I

SECTION - A (Marks 10)

Time	al	lowed:	10	Minutes

Section-A is compulsory. All parts of this section are to be answered on the question paper itself. NOTE:-It should be completed in the first 10 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

1. 1	Circle	the co	rrect option i.e. A / B / C / D. Each part	carries	one mark.
	(i)	Sodiu	um hydroxide is a		
		A.	Weak acid	B.	Strong acid
		C.	Weak base	D.	Strong base
	(ii)	Rem	oval of electron is termed as		
		A.	Reduction	B.	Electrolysis
		C.	Oxidation	D.	Combustion
	(iii)	C_6H	$_{12}O_{6}$ is the chemical formula of		
		A.	Hexane	B.	Ethyl alcohol
		C.	Methane	D.	Glucose
	(iv)	What	t does the Low pH mean?		
		A.	High concentration of hydrogen	B.	Low concentration of hydrogen
		C.	High concentration of hydroxide ion	D.	None of these
	(v)	H_2 S	SO ₄ is a		
		A.	Monabasic acid	B.	Diabasic acid
		C.	Tribasic acid	D.	None of these
	(vi)	Ricke	ets is		
		Α.	Deficiency of Vitamin A in adults	B.	Deficiency of Vitamin A in children
		C.	Deficiency of Vitamin D in adults	D.	Deficiency of Vitamin D in children
	(vii)	Whic	ch of the following is a muscle protein?		
	1333	Α.	Glucagon	B.	Insulin
		C.	Myosin	D.	Pepsin
	(viii)	Norn	nal value of blood triglycerides		
		Α.	60-80 mg%	B.	20-40 mg%
		C.	100-150 mg%	D.	8-20 mg%
	(ix)		BERG'S test is performed to detect		
	()	Α.	Sugar in blood	B.	Sugar in urine
		C.	Ketone bodies in urine	D.	Bilirubin in serum
	(x)	Berit	peri is caused due to the deficiency of		_
	(/-/	Α.	Folate	B.	Niacin
		C.	Riboflavin	D.	Thiamine
	For E	xamin	er's use only:		
				Tota	il Marks:
				Mari	ks Obtained:

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Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

Student Bounty.com NOTE:- Answer any thirteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 26)

Attempt any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2= 26) Q. 2

- Differentiate between Exothermic and Endothermic reactions. (i)
- What is a Crystal? Define Crystallization. (ii)
- Define Enzyme and Iso-enzyme. (iii)
- Explain briefly the process of Oxidation and Reduction. (iv)
- Briefly explain the Patho-physiology of vitamin C. (v)
- Write down the normal Na^+ and K^+ level in the serum. (vi)
- Write briefly the functions of Chloride in our body. (vii)
- Write down the clinical significance of the following: (viii)
 - SGOT
- SGPT
- Differentiate between Atomic number and Atomic mass. (ix)
- What is Periodic classification? (x)
- Differentiate between Apo-enzyme and Co-enzyme. (xi)
- Briefly explain Hemoproteins with examples. (XII)
- Define Porphyrias. (xiii)
- Differentiate between Essential and Non-essential fatty acids. (xiv)
- Write down the normal values of the given parameters in mg% in serum of adults: (XV)
 - Cholesterol
- Calcium
- Total bilirubin C.
- d. Urea
- Define Basicity of acids and Acidity of bases. (xvi)
- Define Gout. (xvii)

SECTION - C (Marks 14)

Note: Attempt any TWO the questions. All questions carry equal marks.

 $(2 \times 7 = 14)$

- Define Urine. Describe the principle and method of estimation of albumin and sugar in urine. Q. 3
- Explain the clinical significance of serum alkaline Phosphatase. Write the principle and method of Q. 4 determination of serum alkaline phosphatase.
- Write down the main functions and normal value of Calcium in the body. Explain how serum calcium is Q. 5 measured in the laboratory.

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