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## ELEMENTARY CHEMISTRY AND CHEMICAL PATHOLOGY HSSC-Q Q SECTION - A (Marks 10)

Time allowed: 10 Minutes

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Note: Section – A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which 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.

		orrect answer A / B / C / D by filling th t according to the instructions given		int bubble for each question on the OMR ach part carries one mark.
1)	Which	of the following is found in haemoglobir	1?	
	A.	Sodium	В.	Iron
•	C.	Potassium	D.	Calcium
2)	Hypok	alaemia means decreased level of	in	blood.
	A.	Magnesium	B.	Chloride
	C.	Potassium	D.	Calcium
3)	Which	of the following blood calcium level is a	bnormal'	?
	Α.	4	B.	8.5
	C.	9.5	D.	10
4)	How n	nany electrodes are there in	pH mete	er?
	A.	1	B.	2
	C.	3	D.	4
5)	The fo	rce which influences the separation of p	articles i	in a centrifuge machine is called:
	A.	Gravitational force	B.	Centripetal force
	C.	Frictional force	D.	Centrifugal force
6)	The in	strument which measures the amount o	f colour i	is called:
	A.	Photometer	B.	Densiometer
	C.	pH meter	D.	Viscometer
7)	When	heat is absorbed during a chemical rea	ction, the	e reaction is said to be:
	A.	Spontaneous	B.	Exothermic
	C.	Endothermic	D.	Irreversible
8)	The g	lassware used to add solution of known	concenti	ration drop by drop into the titration flask
	during	a titration reaction is called:		
	A.	Funnel	B.	Pipette
	C.	Burette	D.	Dropper
9)		hemistry of carbon containing compound		
	A.	Organic chemistry	B.	Inorganic chemistry
	C.	Biochemistry	D.	Thermal chemistry
10)	Which	of the following is the product of an aci		
	A.	NaOH	B.	HCl
	C.	NaCl	D.	$H_2O$

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(3.5)



## ELEMENTARY CHEMISTRY AND CHEMICAL PATHOLOGY HSSC-I

Time allowed: 2:20 Hours

Sublimation

C.

Total Marks Sections B and C: 40

OTE: 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)			
Q. 2	Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines.				
	(i)	Discuss briefly the periodic table.			
	(ii)	Explain types of mixtures on basis of composition.			
	(iii)	What is temperature conversion formula from ${}^{\circ}C$ to ${}^{\circ}F$ ?			
	(iv)	Name factors affecting solubility.			
	(v)	Define normality with formula.			
	(vi)	Define pH.			
	(vii)	Enumerate any two indicators.			
	(viii)	What is pH scale of acidity and basicity?			
	(ix)	What is Kreb's cycle?			
	(x)	Classify lipids.			
	(xi)	What is $\beta$ –oxidation of lipids?			
	(xii)	Name liver function tests.			
	(xiii)	Write down normal values of urea and creatinine with units.			
	(xiv)	What is clinical significance of cholesterol?			
	(xv)	What is clinical significance of Na and K in blood?			
	(xvi)	What is clinical significance of Fe in blood?			
	(xvii)	What is thymol turbidity test?			
Na4a.	A 64	SECTION - C (Marks 14)	$(2 \times 7 = 14)$		
Note:	Atten	npt any TWO questions. All questions carry equal marks.	(1+6)		
Q. 3	What are enzymes? Discuss classes of enzymes in detail.				
Q. 4	What is creatinine? How is it formed? What are its normal values in blood? Discuss its clinical				
	signifi	cance.	(1+2+1+3)		
Q. 5	Write	notes on any two of the following:			
	a.	Decantation	(3.5)		
	b.	Precipitation	(3.5)		

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