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Q. 1

ELEMENTARY CHEMISTRY AND CHEMICAL PATHOLOGY HSSC-I

lime	allowed: 1	0 Minutes					AGLETOL	ı Numb	er 📙	3 2	ŧ U	1
lote:	Section - A	is compulsory.	All parts	of this	section and	to be a	answered	on the s	epara	itely	prov	/idec

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.

1)	Which branch of Chemistry deals with Nuclear reactions?						
	A.	Physical chemistry	В.	Biochemistry			
	C.	Organic chemistry	D.	Nuclear chemistry			
2)	What is unit of length in metric system?						
	A.	Yard	В.	Foot			
	C.	Meter	D.	Inch			
3)	What is value of temperature in Kelvin when temperature of water is $0^{\circ}C$?						
	A.	-273 <i>K</i>	B .	0 K			
	C.	273 <i>K</i>	D.	32 <i>K</i>			
4)	Which of the following is used to measure volume of a substance more precisely?						
	A.	Breaker	В.	Syringe			
	C.	Test tube	D.	Graduated Cylinder			
5)	The instrument used to separate insoluble particles from suspension is:						
	A.	pH meter	В.	Cent rifuge			
	C.	Photometer Photometer	D.	Den siomet er			
6)	Which of the following element is NOT basic component of carbohydrate structure?						
	A.	Sodium	₿.	Carbon			
	C.	Hydrogen	D.	Ox ygen			
7)	ALT is also called as:						
	A.	SGPT	В.	APTT			
	C.	OGTT	D.	GTT			
8)	The pouring out of a liquid is called:						
	A.	Filtration	₿.	Sublim atio n			
	C.	Decantation	D.	Evapo rat ion			
9)	Which of the following element is necessary component of haemoglobin?						
	A.	Na	В.	Fe			
	C.	K	Ð.	Ca			
10)	Which of the following is highly electronegative?						
	A.	Cl	В.	Na			
	С	Мо	D.	Fe			



ELEMENTARY CHEMISTRY AND CHEMICAL PATHOLOGY

Total Marks Sections B and C: 40

Time allowed: 2:20 Hours 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 NOTE:

neatly and legibly.

Decantation

Sublimation

a.

b.

		SECTION - B (Marks 26)				
Q. 2	Answe	(13 x 2= 26)				
	(i)	What is periodic table? Explain it.				
	(ii)	How can we separate mixtures?				
	(iii)	Classify solutions on the basis of concentration?				
	(iv)	What are the factors affecting solubility?				
	(v)	What is strength of acidity of bases and alkalinity of acids?				
	(vi)	How do we measure hydrogen ion concentration?				
	(vii)	Write down Handersen Hasselbach equation.	•			
	(viii)	Define hydrolysis?				
	(ix)	Enumerate types of chemical reactions.				
	(x)	Briefly explain working of colorimeter.				
	(xi)	Name any four classes of enzymes.				
	(xii)	How are lipids metabolised? Explain briefly.				
	(xiii)	What is clinical significance of cholesterol in blood?				
	(xiv)	Name types of phosphatases and transaminases.				
	(xv)	What are normal values of urea and creatinine in blood?				
	(xvi)	What is clinical significance of Albumin in urine?				
	(xvii)	What is dehydration and edema?				
Note:	Atten	(2 x 7 = 14)				
Q. 3	What	(1+2+4)				
Q. 4	What	(2+3+2)				
Q. 5	Write	Write note on any two of the following:				
	a.	Crystallisation	(3.5)			

(3.5)

(3.5)