Model Paper Chemistry 9th (Fresh)

Time Allowed: 2:30 Hours					Total Marks: 65				
Roll No. (in Figures)(In words)			Superintendent Seal & Signature						
Note	e: This	paper consists of thr	ee parts. Atte	mpt ea	ch part accord	ing to the given	instructions.		
Time	Allowe	d: 15 Minutes	:	<u>Section</u>	<u>- "A"</u>		Marks: 12		
Q.1.									
	i.	Branch of chemistry d							
		A. Inorganic	B. Organic	,	C. Bio	D. Physical			
	ii.	Which of the following compounds have same empirical & Molecular formula?							
		A. C ₆ H ₆	B. H ₂ O ₂		C. C ₆ H ₁₂ O ₆	D. H ₂ O			
	iii.	The gram molecular n	nass of HNO ₃ is_		·				
		A. 60g	B. 100g		C. 63g	D. 98g			
	iv.	Chemical formula for	Sodium bicarbor	nate is					
		A. NaCO ₃	B. NaHc		C. NaHCO ₃	D. NH ₃			
	٧.	Atom which gains elec	ctron becomes_						
		A. Molecule	B. Free Radi	cal	C. Cat ion	D. Anion			
	vi.	Rutherford bombarde	d gold foil with_		·				
		A. Hydrogen		B. B	eta Rays				
		C. Gamma Rays		D. A	lpha Rays				
	vii.	$^{12}{}_{6}\mathrm{C},^{13}{}_{6}\mathrm{C}$ and $^{14}{}_{6}\mathrm{C}$ are	nd ¹⁴ ₆ C are the of Carbon						
		A. Allotropes	B. Isobars		C. Isotopes	D. Isomers			
	viii.	Electron radiates energy when they jump to							
		A. Nucleus		B.	Lower energy	Orbit			
		C. Higher energy	Orbit	D.	Valance shell				
	ix.	The arrangement of in an atom is called Electronic configuration.							
		A. Neutrons	B. Protons	C. E	lectrons	D. None			
	х.	There are periods in modern periodic table							
		A. 5	B. 6	C. 7		D. 8			
	xi.	Ionization energy		•	•				
		A. Remains constant	B. Decreases	C. In	creases	D. None			
	xii.	Group VII-A Elements	are called		_family				

B. Alkali C. Transition

D. Halogen

A. Noble Gas

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Time Allowed:		2:15 Hours	Marks: 32				
		Section – "B"					
Q.2.	Attemp						
	(i)	Predict the formula for the chlorides of Gallium and Indium					
	(ii)	Define the terms.					
		a. Representative Elements					
		b. Transition Elements					
	(iii)	What is Rutherford Model of Atom?					
	(iv)	Give electronic configuration of Ne (Z=10) and O (Z=8)					
	(v)	Explain the uses of Isotopes.					
	(vi)	Differentiate between modern and Mendelev periodic law.					
	(vii)	Define Molecular and Empirical formula of a compound.					
	(viii)	Define an element, compound and mixture?					
	(ix)	What is the mass of 5 mole of Ice?					
	(x)	Define shielding effect. Does it vary in a period?					
	(xi)	Calculate the no of protons, neutrons and electrons in the following.					
		a. ¹⁰⁷ ₄₇ Ag. b. ²³⁸ ₉₂ U.					
		Section – "C"	Marks: 21				
Q.3.	Attemp	ot any Three Questions.					
I.	(a)	Define chemistry. State its four branches .	(4+3)				
	(b)	Calculate mass of carbon atom.					
II.	(a)	Discuss the Periods and Groups in modern periodic table.	(4+3)				
	(b)	Calculate the number of molecules in 5 moles of $C_6H_{12}O_6$.					
III.	(a)	Explain Neil Bahr's model of atom.	(4+3)				
	(b)	Give the electronic configuration of AI (Z=13), CI (Z=17), Na (Z=11).					
IV.	(a)	Define Gram atomic mass, gram molecular mass and gram formula mass.	(4+3)				
	(b)	How many moles of CO ₂ are there in 7.5 X 10 ²⁴ molecules of his gas?					