## Half Yearly Examination 2017-2018

Std. Subj		VIII CHEMISTRY	Full Marks : 80 Time : 2 Hrs+15mins.					
		SECTION-A (40 MARKS)						
<b>5</b> 43		ANSWER ALL QUESTIONS	(=)					
Q1)		in the Blanks :-	(5)					
	l. 	is used in making black shoe polish.						
	II. 	Coal is a form of carbon.						
	III.	Compound is a substance is prepared by destructive distillation of coal.						
	V.	is the hardest naturally occurring substance.						
Q2)	Writ	e the Chemical Name of the Following :-	(5)					
	I)	FeCl <sub>3</sub> II) AgCl III) CaSO <sub>4</sub>						
	IV)	MnSO <sub>4</sub> V) NH <sub>4</sub> OH						
Q3)	Bala	ance the Following chemical equations :-	(5)					
	I.	$AgNO_3$ $\longrightarrow$ $Ag + NO_2 + O_2$						
		$C + S \longrightarrow CS_2$						
		$NH_4CI$ $\longrightarrow$ $NH_3 + HCI$						
		$CuO + H_2$ $\longrightarrow$ $Cu + H_2O$						
		$Fe + CuSO_4 \longrightarrow FeSO_4 + Cu$						
Q4)	Writ	e the chemical Formulae for the following compounds :-	(5)					
	I.	Barium Chloride						
	II.	Silver Nitrate						
	III.	Calcium Hydroxide						
	IV.	Sodium Carbonate.						
	٧.	Copper Sulphate						
Q5)	Identify and name the gas evolved in the following :-							
	l.	A gas which turns lead acetate paper black						
	II.	A gas which changes the colour of moist blue litmus to faint red						
	III.	A gas that rekindles a glowing splinter.						
	IV.	A gas which precipitates when passed through silver nitrate solution	n					
	٧.	Two gases which turns lime water milky						

<b>Q</b> 6)	What	What do you observe when :-								
	I.	Copper Carbonate is strongly heated								
	II.	On heating Zinc Nitrate crystalls								
	III.	When Copper Nitrate is strongly heated								
Q7)	Give	e Two Examples of								
	I.	Metalloid								
	II.	Inert Gases								
Q8)	State the original Colour of the following substance and colour of residue obtained after the heating									
	I)	Copper Sulphate II) Zinc Carbonate								
<b>Q</b> 9)	Class	Classify the Following substance into compounds and mixtures								
	Air,	Water, Milk, Common Salt, Carbon dioxide, tap water, alcohol, sugar								
		Section B (40 Marks) (Attempt any 4 Questions)								
Q1.	A)	Mention a suitable technique to separate the constituents of the following mixtures [4]								
		I) Iron from sulphur II) Salt from Sea Water								
		III) Chalk Powder from water IV) Water and Alcohol								
	B)	State three uses of Coal								
	C)	Differentiate between Diamond and Graphite ?								
Q2.	A)	Define	[3]							
		i) Allotropy ii) Sedimentation iii) Carbonization								
	B)	State two uses of Lamp Black. (2)								
	C)	Mention two advantages of chromatography ?								
	D)	Give the symbols and Valencies of following radicals								
		i) Chloride ii) Carbonate iii) Ammonium Ion								
Q3.	A)	Differentiate between compound and Mixture								
	B)	Why Solid carbon dioxide is used for refrigeration of food ?								
	C)	State any two Combined state of occurrence for Carbon ?								
	B)	Name the three main types of Charcoal ?								
Q4.	A)	Why is graphite a good conductor of electricity but not diamond?	(3)							

	B)	Give one example each of Homogeneous and Heterogeneous mixture							(2)				
	C)	Name :-	i)	A soft me	etal	ii)	A lic	luid me	tal				(5)
			iii)	A brittle i	metal	iv)	Non	metal (	ductile	n natur	re e		
			v)	Lustrous	non metal								
<b>Q</b> 5.	A)	State three ways by which carbon dioxide is added into the atmosphere (3)											
	B)	Name the Best Variety of Coal. (1)								(1)			
	C)	Explain Green House Effect								(2)			
	D)	Give any three uses of carbondioxide.								(3)			
	E)	Name the structure of Graphite.									(1)		
Q6.	A)	) Give One Word									(5)		
		I. The outer most shell of an atom is known as											
		II. One example of solid-liquid homogeneous mixture											
		III. Name the state in which graphite is not found											
		IV. Example of a Hydrocarbon											
		V. Name an useful Organic Compound											
	B)	State the	e Vale	ncy of the	underlined	d elem	ents	in the	compo	unds :-	_		(3)
		i) <u>Mg</u>	Cl <sub>2</sub>	ii)	Cu2 <u>O</u>		iii)	<u>Fe</u> Cl <sub>2</sub>					
	C)	Draw ato	omic S	tructure of	f Lithium (A	Atomic	Num	ber-3 a	and ma	ss num	nber 7)	and Lab	el it ?
													(2)