

## GREENLAWNS HIGH SCHOOL FINAL EXAMINATION YEAR 2017

SUBJECT : CHEMISTRY
TIME : 1 ½ HOURS

CLASS : VIII
MARKS : 80

<u>Note</u>: Answer to this paper must be written on the paper provided separately. You will not be allowed to write during the first 10 minutes. This time is to be spent in reading the question paper. The time given at the head of this paper is the time allowed for writing the answers.

There are two sections. All questions are compulsory. You will lose marks for incorrectly spelling the names of elements/ compounds/scientific terms.

	S	ECTION I -	40 MARKS.	
All questions are	e compulsory.			
Q.1. A. Define	· a halqb			[5]
1. Radical				
2. Green hou	ise effect			
3. Neutralisa	ation			
4. Valency				
5. Saturated	solution			
B) Fill in the bla	mks			[5]
		ions mainly Carbon	monoxide are cont	
() - · · · · · · · · · · · · ·		area the pa		, ,
2.	are solids h	aving definite shap	es, symmetrical arra	angements &
sharp edg		1 miles		
3. Red hot in	ron reacts with st	eam to form	& hydroge	n.
4. Welders 1	ise	flame for joinir	ng metal pieces due	to its high
temperatu	ire of 3000°C.			
5. Carbon di	ioxide dissolves i	n water to form	which is	a weak acid.
S 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 10			5.53
		lae for the following	g	[5]
1. Sodium b				
	nide			
	m hydroxide			
4. Magnesiu				
5. Ferric chl	oride			
D) (C' 1 1	C 41 - C-11	malades moves,		[2]
	s for the following			[3]
		3) Helium		
4) Calcium	5) Silicon	<ol><li>Manganese</li></ol>		
C) Give one sin	nilarity & one dif	ference between pro	oton & neutron	[2]

IOOHOR2-	
<ol> <li>Q.3. A. Give scientific reasons</li> <li>Iron ships are generally painted or enamelled.</li> <li>Sand is thrown on a burning object to extinguish it.</li> <li>Moist chemical compounds are kept in desiccators.</li> <li>The first letter of an element could not be used as a symbol for all elements.</li> <li>Metals are generally alloyed (give 2 points)</li> </ol>	[5]
B) Give the English names for the following elements.  1) K 2) Na 3) Ag 4) Au 5) W	[5]
Q.4. A. Give one use of the following -  1. Pig iron 2) Lead 3) Zinc 4) Magnalium 5) Potassium hydroxide 6) Industrial use of Sulphuric acid.	[6]
B) Name the acid which dissociates in water to give three H <sup>+</sup> ions per molecule. Give its one example	[2]
C) If YCl <sub>3</sub> is the chloride of the metal Y then write the formulae for: i) the oxide of Y ii) the hydroxide of Y	[2]
Section II 40 marks	
All questions in this section are compulsory	
Q.5. A) What do you meant by activity series of metals? Name the most reactive & the least reactive metal of this series.	[3]
B) Draw the structure of the following atom $-\frac{40}{20}$ C $\alpha$	
C) Distinguish between the following pairs on the basis of what is given in the brackets.  1) Sodium ion & Chloride ion (Charge)  2) Natural source of air pollution & Manmade source of air pollution (example 3) Efflorescent substance & Deliquescent substance (change of state on exposure to air)  4) Burning & Respiration (Meaning)	[4]

<ol> <li>Q.6 A. Name the following</li> <li>The metal which does not react with oxygen to form it</li> <li>The colourless chemical which forms a dark brown concepresence of Oxygen</li> <li>The process in which crystals are separated or deposit solution on gentle cooling.</li> <li>The agent which removes chemically combined water its strong affinity for water.</li> <li>The mixture of metals which has mercury as one of its</li> </ol>	omplex compound in ted from its saturated from compounds due to
<ul> <li>B) Balance the following chemical equations</li> <li>1) NH<sub>4</sub>NO<sub>2</sub> → H<sub>2</sub>O + N<sub>2</sub> ↑</li> <li>2) ZnS + O<sub>2</sub> → ZnO + SO<sub>2</sub> ↑</li> </ul>	[5]
<ul> <li>3) AlCl<sub>3</sub> + NaOH → Al (OH)<sub>3</sub> + NaCl</li> <li>4) Pb(NO<sub>3</sub>)<sub>2</sub> + NaCl → NaNO<sub>3</sub> + PbCl<sub>2</sub> ↓</li> <li>5) FeCl<sub>3</sub> + SO<sub>2</sub> + H<sub>2</sub>O → FeCl<sub>2</sub> + HCl + H<sub>2</sub>SO<sub>4</sub></li> </ul>	
<ul> <li>Q.7. A) Match the columns &amp; rewrite the pairs.  A  1) Oxide of metal which is yellow when hot &amp; white when cold 2) Oxide of metal which is insoluble in water 3) Oxide of nonmetal which is neither combustible nor helps in combustion 4) Oxide of non metal which after dissolving in water gives phosphoric acid 5) Oxide of metal formed in presence of air &amp; moisture 6) Oxide which reacts with oxygen to form reddish brown fumes.  g) N</li> </ul>	b) Fe <sub>2</sub> O <sub>3</sub> c) ZnO d) P <sub>2</sub> O <sub>5</sub> e) NO f) CO <sub>2</sub>
<ul> <li>B. Give importance of the following metals in alloys.</li> <li>1) Copper in duralumin</li> <li>2) Tin is Solder</li> <li>3) Chromium in Stainless Steel</li> </ul>	h) SO <sub>2</sub> [3]
C) Give two physical properties of buses.	[2]

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D) Write the effects of following air pollutants

1) Sulphur dioxide on plants

2) Hydrogen sulphide on man.

Q.8. A)

Oxygen

Heat

Shown above is the method for preparation of Oxygen in laboratory.  1) Name the reactants used in above reaction.  2) How is the oxygen gas produced collected? Why?  3) What role does the catalyst play?  4) Give a balanced chemical equation for the above reaction.  5) Give an equation to show the preparation of oxygen from any other metallic oxide.	[2] [1] [2]
B) Draw a neat labelled diagram of a drying bottle.	