## CHEMISTRY FORM 2 MARKING SCHEME

1.	From the following list of compounds; zinc oxide, solid carbon (IV) oxide, sodium carbonate, nitric (V)
	acid, iron (III) chloride;
	(1)Identify two that sublinie.
	Iran (III) Chistle
	Solid Carbon (1) oxide
H H	(ii)Identify a pair that react to form salt and water only. (2 mks)
other FREI	Zinc Orude and NitticiNacid  Zno+24Noz -> Zn (Noz) 2+ H20
	(iii) Write a word equation for the reaction between sodium carbonate and nitric (V) acid.
	Sodium Carbonate + Nitril(David -> Sodium nitrate (2 mk)
	arbon(10) orude + Water
2.	In an experiment to investigate the percentage of oxygen in air,200cm³ of air was passed over heated copper turning repeatedly until a constant volume of air remained.160 cm³ of air remained at the end of the experiment.
	(i)Name one gas remaining in the 160 cm³ of air. (1 mk)
	(ii)Determine the percentage of air used up during the experiment. (2 mks)
	$\frac{200 - 160}{260} \times 100 = \frac{160}{200} \times 100 = \frac{1}{200} \times 100 = $
	(iii) What observation would be made during the experiment. (1 mk)  - Bro Red brown apper turn into a black
	solid (oppor(1) oxide

Download this and other FREE revision materials from https://teacher.co.ke/notes

## **CHEMISTRY FORM 2 MARKING SCHEME**

(iv)Write a word equation for the reaction between copper and oxy	vgen.
---	-------

(1 mk)

Copper + oxygen -> Copper (1) oxide

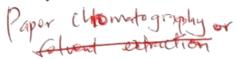
3. Name the best method to use to separate the following mixtures.

(4 mks)

(i)Common salt and water.

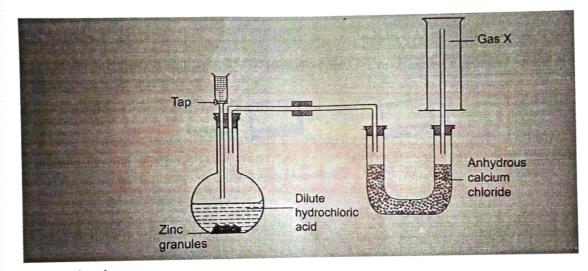
Simple distillation

(ii)Coloured dyes in ethanol.



(iii)Ammonium chloride and sodium chloride.

Sublination of Amnonium Chloride



(iv)Ethanol and water.

Fractional distillation

4. Study the set up below and answer the questions that follow.

(a)Identify gas X.(1 mk)

Hydrogen gas

(b) Name the method used to collect gas X and give the property of the gas that enables it to be collected using the method. (2 mks)

using the method. Upward deriverly (2 mks)
Reason - It is less dense than give

(c) Write a word equation for the reaction liberating gas X.

(1 mk)

Zinc + Hydrochloric acid - Zinc Chloride + Hydroger

Download this and other FREE revision materials from https://teacher.co.ke/notes

## **CHEMISTRY FORM 2 MARKING SCHEME**

s it not advisable to use the following in this method of preparing hydrogen; (i)Calcium and dilute sulphuric acid Coats the Calcium wetal preventing further reaction. (ii)Zinc and Nitric (V) acid.

Nitric (V) acid.

The hydrogen produced into water.

(1mk)

(1mk)

(1mk)

(e) What is the purpose of anhydrous calcium chloride in the U-tube? (1m)
Ack as a drying agent for the hydrogen gas.

(f)Name another compound that could serve the same purpose as anhydrous calcium chloride.

(1 mk)Concentrated Sulphuric (VI) acid

5. When magnesium is burnt in air, it reacts with oxygen and nitrogen gas giving a white ash. Write two

equations for the two reactions that take place.

(2 mks)

(2 mks)

(2 mks)

(3 mks)

(4 mks)

(5 mks)

(6 mks)

(7 mks)

6. The

water on

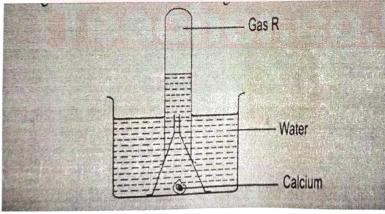


diagram below was used to investigate the action of calcium metal.

(a) Identify gas R.

Hydrogen

(1 mk)

(b)The remaining solution in the beaker changes red litmus paper to blue. What does this suggest about the resulting solution. It is basic

