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| GATITU SECONDARY SCHOOL, P.O. BOX 327 - 01030, GA FORM 3 CHEMISTRY, TUNE - UP EXAMINATION, TERM 1 NAME: | <u>TUNDU.</u> L 2015. | | | | | | |
|---|--------------------------|--|--|--|--|--|--|
| INSTRUCTIONS: | CLASS:ADM: | | | | | | |
| 1. Write your name, adm. And class in the analysis | | | | | | | |
| 2. Answer all questions in the spaces below each question. 1. The element Y is represented as | (30 Marks) | | | | | | |
| a) What does letter Y represent? | (1mk | | | | | | |

What name and symbol is given to the superscript and what does it represent. (2mks b)

What name and symbol is given to the subscript and what does is represent. (2mks c)

Complete the table d)

| lsotope | Number of | | (3mks |
|----------|-----------|----------|-----------|
| 207 P | Protons | Neutrons | Electrons |
| 82 1 0 | | | |

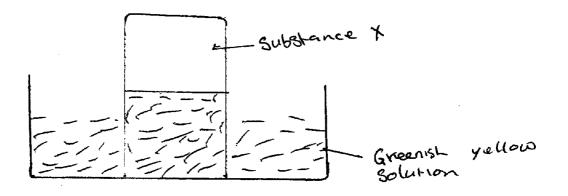
Write the equation for the reaction between magnesium and: 2. a) Steam

(1mk

1

| b) | Cold Water | (1mk |
|----|------------|-------|
| | | |
| c) | Air | (2mks |

Chlorine gas was bubbled through water for sometime. The greenish yellow solution 3. formed; was transferred into a boiling tube as shown in the diagram below.



a) Write an equation for the reaction between chlorine and water. (1mk

b) What is responsible for the greenish yellow colour?

(1mk

c) What condition is necessary for formation of substance X? (1mk

2

(1mk

Write an equation to show how substance X is formed. ii)

Using dot (\bullet) and cross (x) draw the diagram of the following compounds. 4. a)Sodwin chloride (NaCl) (Na = 11 : Cl = 17) (2mks

b)

Magnesium Nitride (Mg_3N_2) (Mg = 12, N = 7)

(2mks

(2mks

c)Define the following terms

Covalent bond i)

(2mks

3

| ii) | Dative bond | • | (2mks | | | | | |
|---|--|---------------------|-------------|--------|-------|--|--|--|
| | | | | | | | | |
| d) Using dots (•) and crosses (x) diagrams: show the structure of the following | | | | | | | | |
| i) | compounds: Oxygen molecule (၉ | | (() = (3.) | | | | | |
| iii) | Carbon (II) oxide(| Cø) | (C = 12) | () = 8 | (2mks | | | |
| 5. a) | Define the following terr Allotropy | ns | (1mk | | | | | |
| | | | | | | | | |
| b) | Allotropes | | (1mk | | | | | |
| | | | | | | | | |
| c) | Name the two crystallir | e allotropes of car | bon. | (2mks. | | | | |
| | | • | | | | | | |
| Xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx 4 | | | | | | | | |

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