NAME……………………………………………………………………………………..ADM. NO………………………CLASS……………

GATITU GIRLS’ SECONDARY SCHOOL

CHEMISTRY FORM 3 TERM ONE

TUNE UP EXAMINATION 2017

INSTRUCTIONS

1.Write your name ,admission number and class in the spaces provided above .

2.Answer all the questions in the spaces provided .

3.Mathematical tables an d scientific calculators may be used .

4.All working must be shown where necessary .

QUESTIONS

1.a)Define salt . (1mk)

b)Name two types of salts . (2mks)

c)Complete the following table by indicating which salt is soluble or insoluble . (3mks)

|  |  |
| --- | --- |
| NAME OF SALT | PRODUCTS |
| A | Oxide of the metal,nitrogen( iv) oxide and oygen |
| B | Metal B,nitrogen (iv)oxide and oxygen |
| C | Nitrite of cand oxygen gas |

i)Arrange the metals in the order of reactivity starting with the most reactive. (1mk)

ii)Name the metal that is likely to be C? (1mk)

iii)Name the metal that is likely to be silver? (1mk)

3.The grid below is a section of the periodic table.The letters the actual symbol of the elements .Use it to answer the questions that follow.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | | | |  | |  |
|  |  |  |  | D |  |  | F |  |
|  |  | C |  | E |  |  | G |
| A | B |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

a)Compare the melting points of A and C?Explain (2mks)

b)Which element has the lowest ionization energy . (1mk)

c)In terms of structure and bonding .State the structure in ;

i) D (1mk)

ii)Chloride of C (1mk)

d)Choose the letter that represents an element that:

i)Is the most electronegative . (1mk)

ii)Exist as a monoatomic gas . (1mk)

e)Write the formula of the compound formed when E reacts with magnesium . (1mk)

f)(i)Write a balanced equation for reaction between element A and water . (1mk)

ii)What is the nature of the solution formed? (1mk)

g)Which element in the periodic table has four energy levels and forms chloride MCl 2 (1mk)

h)How do the atomic sizes of elements Cand E compare ?Explain (2mks)

(i)Using dot(.) and cross (x) for electrons,show the bonding in the compound formed between elements b and F . (2mks)

4.a)State two differences between electrolyte and conductor .(2mks)

b)Below is a set up apparatus to investigate the effect of electric current on lead (ii) bromide .

i)Name electrode

K……………………………………………………….(1mk)

L………………………………………………………….(1mk)

ii)State and exp-lain the observation at the electrode L? (2mks)

iii)Before melting lead (ii) bromide did not conduct electric current but later it conducted .Explain. (2mks)

iv)What is the function of the bulb in the set up.(1mk)

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