**GATITU MIXED SECONDARY SCHOOL**

**ARISE & SHINE.**

**MIDTERM EXAM-TERM 3 2014**

**FORM 1 CHEMISTRY.**

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

1. What is a neutralization reaction (1mk)

2.Define the following

 a)atom

 b)element

c) Molecule (3mks)

3. The following represent a set up that was used to show the part of air used during burning

 a) Draw the diagram of set up at the end of the experiment (1mk)

b) State the observation made (2mks)

c) Write a word equation representing (b) above (1mk)

4. What are acid bases indicators?

b) Give three commercial acid base indicators (4mks)

5.Give two neutral solution s(2mks0

6.The following set up was used to study some properties of air.

a) State and explain two observation that would be made at end of experiment (2mks)

7.State the changes when the following are heated

 a) zinc oxide

 b) iodine (2mks

1. List four characteristic of permanent chemical change(4mks)
2. a) What is a universal indicator b) tlist the advantage of using un iversal indicator(2mk)
3. State whether the following solution with then following pH value are acidic ,basic or neutral and state the colour they exhibit when universal indicator is used (5mk) pH 2 ph 5ph 7 ph 8 ph10.

11.A) State two observation when dilute hydrochloric acid is added to zinc (2mks)

 b) What is the test for the gas produced in the above reaction (1mk)

12. Complete the following equations (5mks)

.sodium carbonate +hydrochloric acid

Sodium hydroxide hydrochloric acid

Zinc oxide + nitric acid

 Lead ii oxide + sulphuric acid

Magnesium + hydrochloric acid.

13.a) What is an acid

 b) give four properties of an acid (3mks)

 14. What is a base ?

 b) How do bases react with acid (2mks)

 c) Give three uses of bases (3mks)

15 .Descibe how you can prepare acid base indicator using the flower extra iict (5mks)

16. Complete the table below (6mks)

|  |  |  |
| --- | --- | --- |
| indicator | colour |  |
|  | acid | base |
| Litmus paper |  |  |
| phenophthalein |  |  |
| M ethy orange |  |  |
|  |  |  |

17.what is an alkali (1mk)

18Name the gases found in air and state the percentage by volume in the atmosphere (6mks)

19Explain what happens when copper turnings are heated in oxygen (1mk)

20.state two deliquescent substance(3mks)

21.In an experiment 2000cm3 of air was passed over heated copper i160cm3 of air remained at the end of experim ent

 a) calculate the percentage of air used up in experiment (2mks)

b) Identify the gas that was used up(1mk)

22 Describe the fractional distillation of liquefied air(10mks)

All the best. Ms. Muturi