**KAHUHO UHURU HIGH SCHOOL**

**FORM TWO CHEMISTRY MID TERM EXAM 2011**

**TME**

**ANSWER ALL QUESTINS ON THE SPACES PROVIDED.**

1. Sodium chloride (common salt) is contaminated with copper (II) oxide. Explain how pure sodium chloride can be obtained form the mixture. (3 marks)
2. Write a word equation for the reaction between magnesium with: (2 marks)
3. Oxygen
4. Sulphuric acid.
5. (a) Name the particles that are found in an atun. (1.5)
6. Atom are said to be electrically neutral. Explain. (2 marks)
7. A bunsen burner produces two types of flames under different conditions.
8. What are they called (2 marks)
9. Which of the two flames will boil 100cm3 of water in a shorter time? Explain briefly. (1.5 marks)
10. The diagram below shows the set up used bya student to react dry hydrogen with copper(II) oxide slid.
11. State and explain the observation made on the anhydrous cobalt (II) chloride paper at the end of the reaction. (1.5 marks)
12. Give a reason for burning excess hydrogen gas. (1 mark)
13. An element Q has two isotopes Q and Q which exists in the ratio 1:4.

(a)Calculate the relative atomic mass of element Q . (3 marks)

1. Write the electronic arrangement of element Q. (1 mark)
2. Study the table below in which letters J – Q (not actual symbols) represents elements.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Element | J | K | L | M | N | O | P | Q |
| Atomic number | 3 | 7 | 8 | 9 | 10 | 11 | 12 | 14 |

1. Select two elements which below to the same.
2. Group (1 mark)
3. Period (1 mark)
4. Solution may be classified as strong base, weak base, neutral , strong acid or weak acid. The information below gives some solutions and their PH values. Study it and answer the questions that follow.

|  |  |
| --- | --- |
| solution | PH |
| A  B  C  D | 0.5  7  14  9 |

Classify the solutions in the table using the stated classifications.

A

B

C

D

1. An element is represented as

m

X

n

1. List the number of protons and neutrons in this atoms.

17

O

8