



Hillside Secondary School.

(Gomba-Kifampa)
CHEMISTRY DEPARTMENT

Time: 1:30 mins

Holiday Program CBC Assessment (2024)

INSTRUCTIONS TO THE LERNER

- ✓ Attempt all questions on the Answer Booklet/Sheet Provided.
- ✓ Incorrect Formulae & unbalanced equations may lead to lose of marks.
- ✓ Where possible the following might be applicable.
(Fe=56, S=32, Ca = 40, C=12, O = 16, Cl=35.5, Na=23, K=39, H=1)

Mole Concept

1. Imagine you are conducting an experiment where you have 10g of Calcium carbonate. Present the total number of Calcium carbonate molecules in the Sample.
(4 marks)
2. Picture a scenario where you have 3moles of table salt. Present the total number of ions in this quantity.
(4 marks)
3. You encounter a scenario with 35g of ethanol. Demonstrate how you would determine the moles of Ethanol.
(4marks)
4. Sarah was mixing certain chemicals in the laboratory and discovered a reaction involving 15g of sulphuric acid. Demonstrate how you would calculate the number of moles of the Acid involved in the reaction.
(4marks)
5. Picture a scenario involving the reaction between sulphuric acid and potassium hydroxide.
(a). Present a stoichiometric equation and briefly short list how you achieved it.
(4marks)
(b). Using the above technique if Iron (II) Sulphide was formed by heating 64g of Sulphur with excess Iron fillings, what would be the mass of the product formed.
(4 marks)

END

“Welcome back From the Holiday”