



TEST PAPER: CHEMISTRY

Time: 40 Minutes

Class: ICSE 10th

Max. Marks: 30 Marks

Date: 24th October, 2018

Marking Scheme: Questions carry 10 marks each. Questions have 3 subparts each. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.

Question: 1

- A. Define following with examples:
- Efflorescence
 - Deliquescence
- B. Why sulphuric acid is dibasic acid. Explain with the help of equations.
- C. Explain the term acid rain. Give balanced equations for the formation of nitric acid in acid rain.

Question: 2

- A. Give the balanced equation for the preparation of following salts:
- Lead sulphate
 - iron (III) chloride
- B. Explain the action of acids on metals with two examples.
- C. Calculate the percentage by weight of the following: [H=1, S=32, P=31, O=16]
- Sulphur in sulphuric acid
 - phosphorus in phosphoric acid

Question: 3

- A. Calculate the weight of potassium nitrite formed by thermal decomposition of 15.15 g of potassium nitrate [K=39, N=14, O=16]
- B. Calculate the weight of calcium chloride obtained from 10 g of CaCO₃.and volume of CO₂ at s.t.p
 $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O} + \text{CO}_2$ [Ca=40, Cl=35.5, C=12, O=16, H=1]
- C. A gaseous hydrocarbon weighs 0.70 g and contains 0.60 g of carbon. Find the molecular formula of the compound if its molecular weight is 70. [C=12, H=1]