



# TEST PAPER: CHEMISTRY

Time: 45 Minutes

Class: ICSE 10

Max. Marks: 30 Marks

Date: 18<sup>TH</sup> July 2018

**Marking Scheme:** Three 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. Give equation for the action of heat on:

- $\text{Cu}(\text{NO}_3)_2$
- $\text{NH}_4\text{NO}_3$

B. Give reasons why dilute sulphuric acid is dibasic in nature.

C. Complete and balance the following equations:

- $\text{C} + \text{H}_2\text{SO}_4 \longrightarrow$
- $\text{C} + \text{HNO}_3 \longrightarrow$
- $\text{Cu} + \text{HNO}_3(\text{dil.}) \longrightarrow$
- $\text{Cu} + \text{HNO}_3(\text{conc.}) \longrightarrow$

## Question 2:

A. State why sulphuric acid was called oil of vitriol.

B. Give the equation for the reaction of conc. Sulphuric acid with:

- Glucose
- Ethanol
- Hydrated copper (II) sulphate

C. Sulphuric acid is a non-volatile acid. Explain with the help of its reaction with:

- Potassium nitrate
- Sodium chloride

## Question 3:

A. State how atmospheric nitrogen converts itself to nitric acid. Explain with the help of equations

B. Give the laboratory preparation of nitric acid with diagram.

C. Give reasons for the following:

- Nitric acid finds application in the purification of gold.
- The yellow colour of nitric acid obtained in the laboratory is removed by bubbling air through it.