



TEST PAPER: CHEMISTRY

Time: 40 Minutes

Class: ICSE 8th

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. Name the following:
- The metal used in hydrogenation of oils.
 - The metal which reacts with steam liberating hydrogen and reaction is reversible.
 - The metallic compound used as a catalyst in Bosch process.
- B. Hydrogen is combustible gas and non-supporter of combustion. Explain.
- C. Give the reasons for the following:
- In Bosch process- the final products are passed through caustic potash (KOH) solution.
 - The reaction of chlorine and hydrogen sulphide is deemed a redox reaction.
$$\text{Cl}_2 + \text{H}_2\text{S} \rightarrow 2\text{HCl} + \text{S}$$

Question: 2

- A. How would you obtain following from hydrogen:
- A neutral liquid(water)
 - A basic gas(ammonia)
- B. Give three properties of hydrogen.
- C. Give equation of the laboratory preparation of hydrogen with diagram.

Question: 3

- A. Give a balanced chemical equation for the electrolysis of water. Why distilled water is not used for the electrolysis of water?
- B. Complete and balance the following equations;
- $\text{ZnO} + \text{H}_2 \rightarrow$
 - $\text{Zn} + \text{NaOH} \rightarrow$
- C. Give the balanced equations for the following conversions:
- water gas to hydrogen
 - iron (III) oxide to iron