



TEST PAPER: CHEMISTRY

Time: 50 Minutes

Class: ICSE 10th

Max. Marks: 30 Marks

Date: 13th June, 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 the condensed structural formula of the following organic compounds:

- | | | |
|------------------------------|-------------------|------------------------|
| a. Pent-2-ene | b. 2-butanol | c. 2-methyl-prop-1-ene |
| d. 1,1,2,2 tetra-bromoethane | e. Propanoic acid | f. 3-Pentanone |

B. Give the IUPAC names of the following organic compounds:

- | | | |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| a. $\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)_2\text{CH}_2\text{CH}_3$ | b. $\text{CH}_3\text{OCH}_2\text{CH}_2\text{CH}_3$ | c. $\text{CH}_3\text{CH}(\text{Br})\text{CH}_2\text{CH}(\text{Cl})\text{CH}_3$ |
| d. $\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}(\text{OH})\text{CH}_3$ | e. $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{C}_2\text{H}_5)\text{CH}_2\text{CH}_2\text{CH}_3$ | f. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CHO}$ |

C. Write a balanced chemical equation for the following:

- Reaction of ethane and oxygen in presence of Molybdenum oxide.
- Preparation of methane from sodium ethanoate and sodalime.
- Reaction of heating ethanol at 170°C in the presence of conc. H_2SO_4 .
- Preparation of carbon tetrachloride from methane.

Question 2:

A. State 3 differences between saturated and unsaturated hydrocarbons.

B. Explain Wurtz reaction taking an examples of :

- Iodoethane
- 2-iodo propane
- Iodomethane

C. Write the equations for the following laboratory preparations:

- Ethene from iodoethane
- Ethyne from calcium carbide

Question 3:

A. Define the following terms:

- Pyrolysis
- Catenation
- Paraffins

B. Write the balanced chemical equations for following:

- Dehydro halogenation of ethyl bromide
- Halogenation of ethene
- Oxidation of methane using acidified potassium dichromate

C. Name the following:

- IUPAC name for acetic acid
- IUPAC name for acetylene
- IUPAC name for glycol
- IUPAC name for chloroform