



TEST PAPER: CHEMISTRY

Time: 40 Minutes

Class: CBSE 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. Give the electron dot structure of following molecules:
- CO₂
 - CH₄
- B. Differentiate between saturated and unsaturated hydrocarbons.
- C. Give the condensed structures of following compounds whose IUPAC names are given:
- 2-methyl propane
 - 2-butanone
 - 2-Butanol
 - Hexanoic acid

Question: 2

- A. Give all the structural isomers of pentane with their IUPAC names.
- B. Give the IUPAC names of following compounds:
- | | |
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| a. CH ₃ COCH ₃ | d. HCHO |
| b. CH ₃ CH ₂ CH(OH)CH ₂ CH ₃ | e. CH ₃ COOH |
| c. CH ₃ CH ₂ Br | f. CH ₃ CH(Cl)CH ₂ CH ₃ |
- C. Define combustion. Give the balanced equation for the combustion of methane and ethane.

Question: 3

- A. Define the following terms:
- Isomerism
 - Catenation
- B. Explain the formation of following molecules:
- Nitrogen
 - Oxygen
- C. Give a balanced chemical equation for the following conversions:
- Ethanol to ethanoic acid
 - Ethanol to ethene