

TEST PAPER: CHEMISTRY

Time: 45 Minutes Class: I.C.S.E 10

Max. Marks: 30 marks Date: 2nd May 2018

Marking Scheme: Three questions carry 10 marks each. Each question has 3 sub-parts. Subparts (a) and (b) carry 3 marks each and subpart (c) carries 4 marks.

Question 1

A. Give condensed structures for the following compounds:

a. 1,2-dichloropropane

b. 2-methyl prop-1- ene

c. Ethoxy ethane

d. Propanoic acid

e. 3-pentanone

f. 1,3-butadiene

B. Give the chain isomers of pentane with their IUPAC names.

C. Define isomerism. Give Chain and position isomers of pentene.

Question 2

A. Give IUPAC names of the following Compounds:

a. CH₃ -CH(Br)- CH(CH₃)-COOH

b. CH₃ - CH₂ -CO- CH₃

c. CH_3 - $CH(CH_3)$ - CH_2 - CH_2 — OH

d. HCHO

e. CH₃ - CH(CH₃)-CH₃

f. CH₂ (CI) - CH₂ (CI)

B. Name the following:

a. IUPAC name of acetylene

b. an acid present in vinegar

c. an unsaturated hydrocarbon with general formula C_n H_{2n}

C. Give the IUPAC names and structure for the following:

a. Isobutane

b. Neopentane

Question 3

A. Give position isomers of pentyne with IUPAC names

B. Explain bonding in ethane with the help of electron dot structure

C. Define following terms with example:

a. Homologous series

b. Heterocyclic compounds