

BRAIN INTERNATIONAL SCHOOL

Chemistry Assignment

CLASS XI

Dec.'24

CH: Some basic concept of organic chemistry

1. Give IUPAC name of the following:

(a) Ethylene glycol (b) Salicyl aldehyde (c) Glycerol (d) Glyoxal

2. Draw all position isomers of $C_3H_6Cl_2$.

3. Which type of isomers are isopropyl alcohol and propyl alcohol?

4. Describe fission of bonds giving examples.

5. Define (i) Nucleophiles (ii) Electrophiles

6. How can you say Ethanecynide and Ethanecynides are functional isomers?

MCQ

7. The compound which contains all the four 1^0 , 2^0 , 3^0 and 4^0 carbon atoms is:

(a) 2,3-dimethylpentane (b) 3-chloro-2,3-dimethylpentane

(c) 2,3,4-trimethylpentane (d) 3,3-dimethylpentane

8. The number of sigma and π bonds in C_6H_5COOH are:

(a) 13 sigma, 4π (b) 14 sigma, 4π

(c) 15 sigma, 4π (d) 16 sigma, 4π

9. The IUPAC name of $CH_3COCH(CH_3)_2$

(a) 2-methyl-3-butanone (b) 3-methyl-2-butanone

(c) iso-propyl methyl ketone (d) 4-methylisopropyl ketone

10. Markownikoff's addition product lies in the formation of intermediate stable:

(a) carbocation (b) carboanion

(c) carbon radical (d) unsaturation

11. A nucleophile is:

(a) an electron-rich species (b) an electron deficient species

(c) a Lewis acid (d) a positive charge species