

## BRAIN INTERNATIONAL SCHOOL

Chemistry Assignment

Class X

Oct' 2018

### Chapter-4 Carbon and its Compounds

- Q1. Draw the electron dot structure of ethyne and also draw its structural formula.
- Q2. Why detergents are better cleansing agents than soaps? Explain.
- Q3. Name the functional groups present in the following compounds. Also, write their IUPAC names:
- (a)  $\text{CH}_3\text{COCH}_2\text{CH}_2\text{CH}_2\text{CH}_3$                       (c)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CHO}$   
(b)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH}$                       (d)  $\text{CH}_3\text{CH}_2\text{OH}$
- Q4. How is ethene prepared from ethanol? Give the reaction involved in it.
- Q5. Intake of small quantity of methanol can be lethal. Comment.
- Q6. A gas is evolved when ethanol reacts with sodium. Name the gas evolved and also write the balanced chemical equation of the reaction involved.
- Q7. Write the structural formulae of all the isomers of hexane.
- Q8. A salt X is formed and a gas is evolved when ethanoic acid reacts with sodium hydrogen carbonate. Name the salt X and the gas evolved. Also, write chemical equation of the reaction involved.
- Q9. What are hydrocarbons? Give examples. Give the structural differences between saturated and unsaturated hydrocarbons with two examples each. What is a functional group? Give examples of four different functional groups.
- Q10. Name the reaction which is commonly used in the conversion of vegetable oils to fats. Explain the reaction involved in detail.