



Brain International School

Vikas Puri, New Delhi

ASSIGNMENT NO.- 6

SUBJECT: CHEMISTRY

CLASS-XI

Dec,25

Ch-8 Some basic concept of organic chemistry

1. Give IUPAC name of the following:
(a) Toluene (b) Aniline (c) Glyoxal (d) Oxalic acid (e) Ethylene glycol (f) Glycerol
(g) Salicylic acid (h) Salicyl aldehyde
2. Show the fission of bonds with proper arrow.
3. Define the following with example.
(a) Nucleophile (b) Electrophile
4. What are carbocations? Give two examples.
5. Explain Hyper conjugation taking example of propene.
6. Hydroxy group bonded with benzene is o&p directing for electrophilic aromatic substitution. explain
7. Arrange carbocations in decreasing order of stability.
8. Give reason: $\text{C}_6\text{H}_5\text{CH}_2^+$ is more stable than $(\text{CH}_3)_3\text{C}^+$.
9. $\text{C}_6\text{H}_5\text{CH}_2^+$ and $\text{C}_6\text{H}_5\text{CH}_2^-$ both are equally stable give reason.
10. Explain with example +R effect. Give example of phenol
11. Explain -R effect giving example of nitrobenzene.
12. Methyl group has not lone pair of electrons but it is O& P directing for electrophilic aromatic substitution.