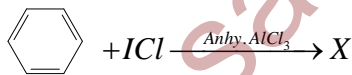
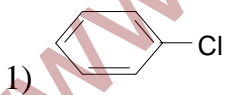
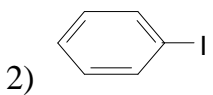
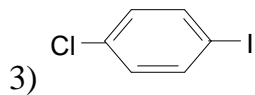
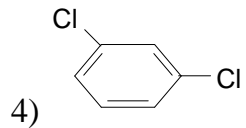


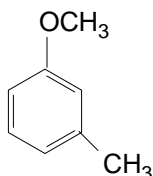
## Hydrocarbons

1. 'X' is heated with soda lime and gives ethane 'X' is (AFMC 2005)  
1) Methanoic acid 2) Ethanoic acid 3) Propanoic acid 4) Either (1) or (3)
2. The addition of unsymmetrical reagents to unsymmetrical alkenes occurs in such a way that the negative part of the addendum goes to that carbon atom of the double bond which carries lesser number of hydrogen atoms is called by (AFMC 2004)  
1) Saytzeff rule 2) Markovnikov's rule  
3) Kharasch effect 4) Anti saytzeff rule
3. 3-phenyl propene on reaction with HBr gives (as a major product) (AIIMS 2003)  
1)  $C_6H_5CH_2CH(Br)CH_3$  2)  $C_6H_5CH(Br)CH_2CH_3$   
3)  $C_6H_5CH_2CH_2CH_2Br$  4)  $C_6H_5CH(Br)CH=CH_2$
4. Main constituent of LPG is (AFMC 2009)  
1) Methane 2) Isobutane, Propane  
3)  $H_2$ ,  $CH_4$ , Isobutane 4) None of these
5. The compound 'X' in the reaction (AIIMS 2007)  
  
1)  2)   
3)  4) 
6. Enthalpy of hydrogenation of cyclohexene is  $-119.5 \text{ kJmol}^{-1}$ . If resonance energy of benzene is  $-150.4 \text{ kJmol}^{-1}$ , its enthalpy of hydrogenation would be (AIPMT 2006)  
1)  $-358.5 \text{ kJmol}^{-1}$  2)  $-508.9 \text{ kJmol}^{-1}$  3)  $-208.1 \text{ kJmol}^{-1}$  4)  $-269.9 \text{ kJmol}^{-1}$

7. Which of the compounds with molecular formula  $C_5H_{10}$  yields acetone on ozonolysis? (AIPMT 2007)

- 1) 2-methyl-1-butene                      2) 2-methyl-2-butene  
3) 3-methyl-1-butene                    4) Cyclopentane

8. The major product obtained on monobromination ( $Br_2/FeBr_3$ ) of the



following compound 'A' is

(AIIMS 2006)

- 1) 2) 3) 4)

9. Benzene reacts with  $CH_3Cl$  in the presence of anhydrous  $AlCl_3$  to form

(AIPMT 2009)

- 1) Toluene                      2) Xylene                      3) Chlorobenzene                      4) Benzyl chloride

10.  $H_3C-\underset{\underset{CH_3}{|}}{CH}-CH=CH_2 + HBr \rightarrow A$  ; A (predominantly) is (AIPMT 2008)

- 1)  $CH_3-\underset{\underset{Br}{|}}{CH}-\underset{\underset{CH_3}{|}}{CH}-CH_3$                       2)  $CH_3-\underset{\underset{CH_3}{|}}{CH}-\underset{\underset{Br}{|}}{CH}-CH_3$   
3)  $CH_3-\underset{\underset{CH_3}{|}}{CH}-CH_2-CH_2Br$                       4)  $CH_3-\underset{\underset{CH_3}{|}}{CH}-\overset{\overset{Br}{|}}{CH}-CH_2-CH_3$

11. The chlorination of ethane is an example for which type of the following reactions? (EAMCET-12)

- (1) Nucleophilic substitution                      (2) Electrophilic substitution  
(3) Free radical substitution                      (4) Rearrangement

