

# ANSWERS TO THE SHORT QUESTIONS

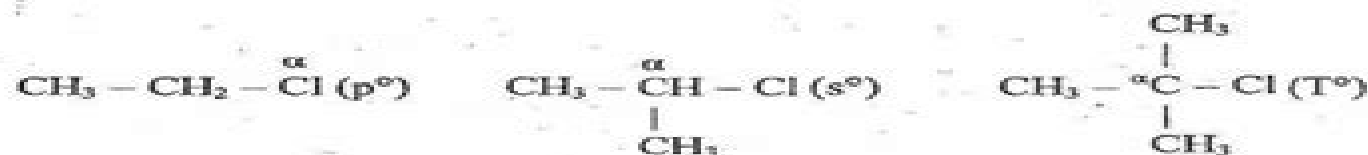
## GENERAL FEATURES OF ALKYL HALIDES

**Q.1** What are alkyl halides? Give their general formula and name two monohaloalkenes. (Sarg. 2010)

**Ans.** Those organic compounds which are derived from the hydrocarbons by the replacement of one or more hydrogen atoms by halogen atoms are called alkylhalides. They are represented by  $R-X$  and the general formula is  $C_nH_{2n+1}-X$ .  $CH_3Cl$ ,  $C_2H_5Br$ ,  $C_3H_7I$  are mono halo alkanes.

**Q.2** What are primary, secondary and tertiary alkyl halides? Give examples of each. (Faisalabad 2008, Multan 2012, Multan 2013, D.G. Khan 2013)

**Ans.** In primary alkyl halides,  $\alpha$ -carbon has at least two hydrogen atoms, in secondary alkyl halides,  $\alpha$ -carbon has only one hydrogen and in tertiary alkyl halides  $\alpha$ -carbon has no hydrogen.



## PREPARATIONS OF ALKYL HALIDES

**Q.3** What are the necessary conditions to convert alcohols into alkyl halides by using halogen acids? (Lahore 2008, Lahore 2010, Lahore 2012, F. Abad 2013)

**Ans.** Alcohols are reacted with halogen acids in the presence of  $ZnCl_2$  or  $H_2SO_4$  to get alkyl halides,



**Q.4**  $SOCl_2$  is the best reagent to get alkyl halides from alcohols. Which solvent is necessary to complete this reaction?

**Ans.** Alcohols react with  $SOCl_2$  to give alkyl chlorides in the presence of pyridine.  $HCl$  and  $SO_2$  are gaseous products which are evolved automatically and pure alkyl chloride is obtained. So, this is one of the best methods. (Lahore 2008, Guj. 2010, Lahore 2012)

**Q.5** Convert to get alkyl chlorides to get alkyl chlorides ethyl alcohol into their respective halides by using  $PCl_3$  and  $PI_5$ . (Lahore 2008, Lahore 2012)

**Ans.**  $3CH_3CH_2OH + PCl_3 \longrightarrow 3CH_3CH_2Cl + H_3PO_3$   
 $CH_3CH_2OH + PI_5 \longrightarrow CH_3CH_2I + POI_3 + HI$

## REACTIONS OF ALKYL HALIDES

**Q.6** Which two factors are responsible for reactivity of alkyl halides as compared to alkanes? (Faisalabad 2010, Guj. 2012)

**Ans.** (i) Bond dissociation energy (ii) Polarity

The bond dissociation energy of  $C - X$  bond is in the order.



# Lab Experiments For First Year Chemistry 2nd Edit Sp 2003

**Nova J. Silvy**



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