(Class 12)

Question 12.4:

Arrange the following compounds in increasing order of their reactivity in nucleophilic addition reactions.

- (i) Ethanal, Propanal, Propanone, Butanone.
- (ii) Benzaldehyde, p-Tolualdehyde, p-Nitrobenzaldehyde, Acetophenone.
- Hint: Consider steric effect and electronic effect.

__Answer 12.4:

(i) The +I effect of the alkyl group increases in the order:

Ethanal<Propanal<Propanone< Butanone

The electron density at the carbonyl carbon increases with the increase in the +I effect. As a result, the chances of attack by a nucleophile decrease. Hence, the increasing order of the reactivities of the given carbonyl compounds in nucleophilic addition reactions is:

Butanone < Propanone < Propanal < Ethanal



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- (ii) The +1 effect is more in ketone than in aldehyde. Hence, acetophenone is the least reactive in nucleophilic addition reactions. Among aldehydes, the +1 effect is the highest in ptolualdehyde because of the presence of the electron-donating -CH3 group and the lowest in pnitrobezaldehyde because of the presence of the electron-withdrawing -NO₂ group. Hence, the increasing order of the reactivities of the given compounds is:
 - Acetophenone < p-tolualdehyde < Benzaldehyde < p-Nitrobenzaldehyde

Ouestion 12.5:

Predict the products of the following reactions:

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