

# Chemistry

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(Chapter 12) (Aldehydes, Ketones and Carboxylic Acids) (Intext Questions)  
(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



Ethanal



Propanal



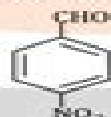
Propanone



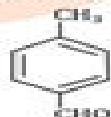
Butanone

(ii) The +I effect is more in ketone than in aldehyde. Hence, acetophenone is the least reactive in nucleophilic addition reactions. Among aldehydes, the +I effect is the highest in *p*-tolualdehyde because of the presence of the electron-donating -CH<sub>3</sub> group and the lowest in *p*-nitrobenzaldehyde because of the presence of the electron-withdrawing -NO<sub>2</sub> group. Hence, the increasing order of the reactivities of the given compounds is:

Acetophenone < *p*-tolualdehyde < Benzaldehyde < *p*-Nitrobenzaldehyde



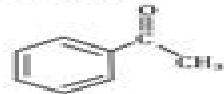
*p*-Nitrobenzaldehyde



*p*-Tolualdehyde



Benzaldehyde



Acetophenone

## Question 12.5:

Predict the products of the following reactions:

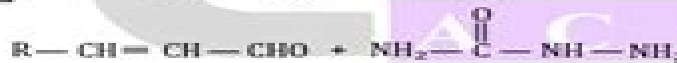
(i)



(ii)



(iii)



(iv)



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