

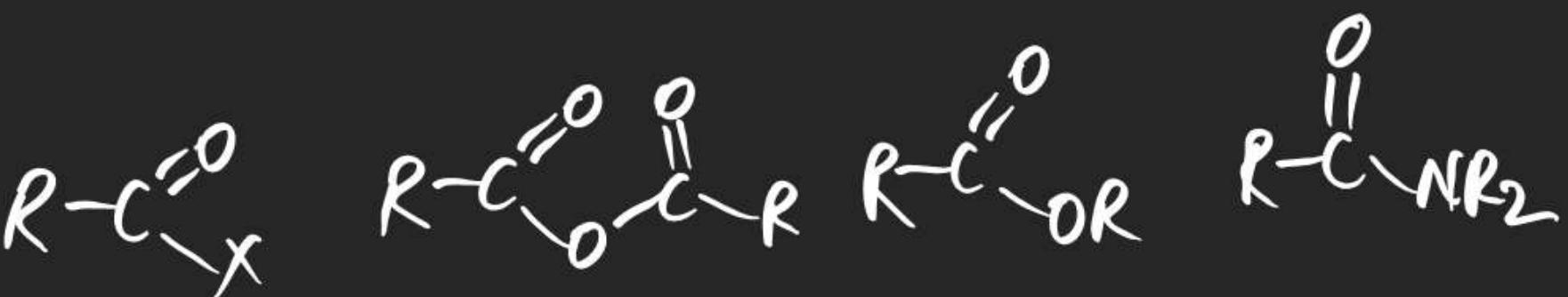
# Carboxylic Acid & Derivatives

$\Rightarrow$  Carboxylic Acid



Hydrolysis

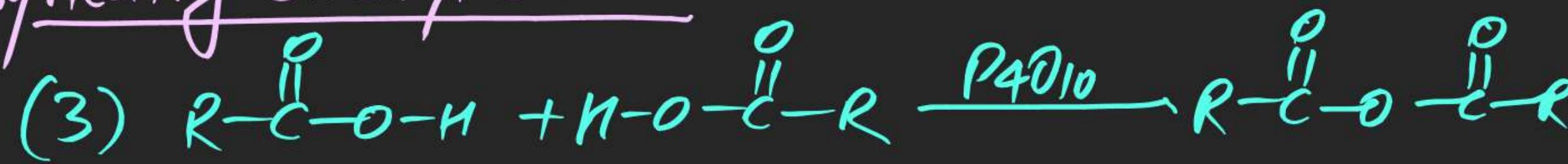
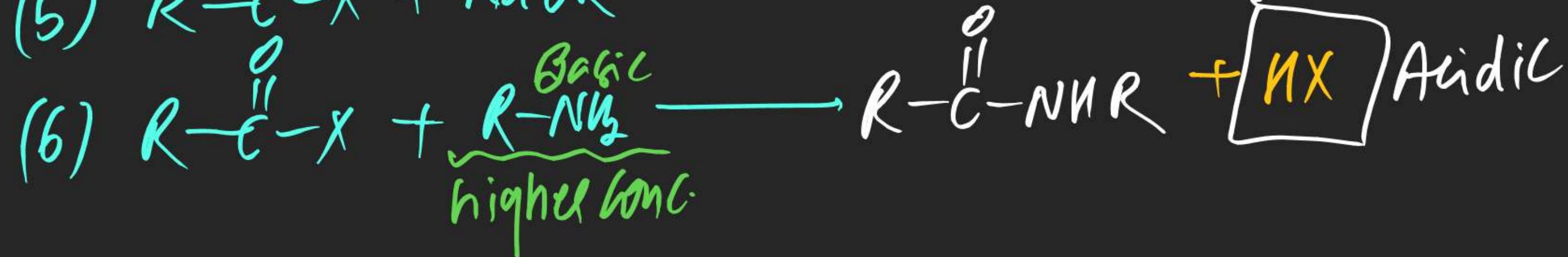
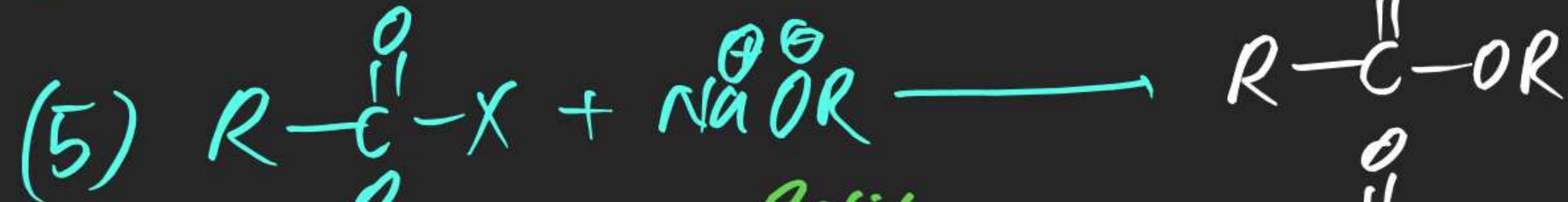
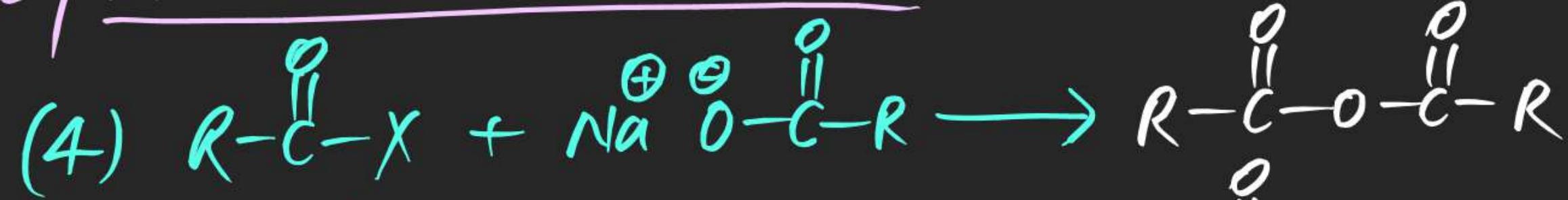
$\Rightarrow$  Carboxylic Acid derivatives



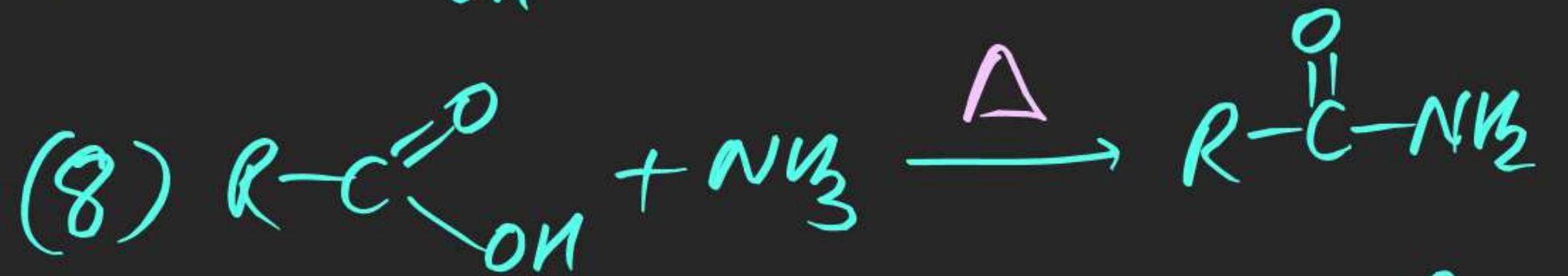
## Method of Preparation:

(1) By reaction of  $\text{PbS}$ ,  $\text{SOCl}_2$  with  $\text{R-COOH}$

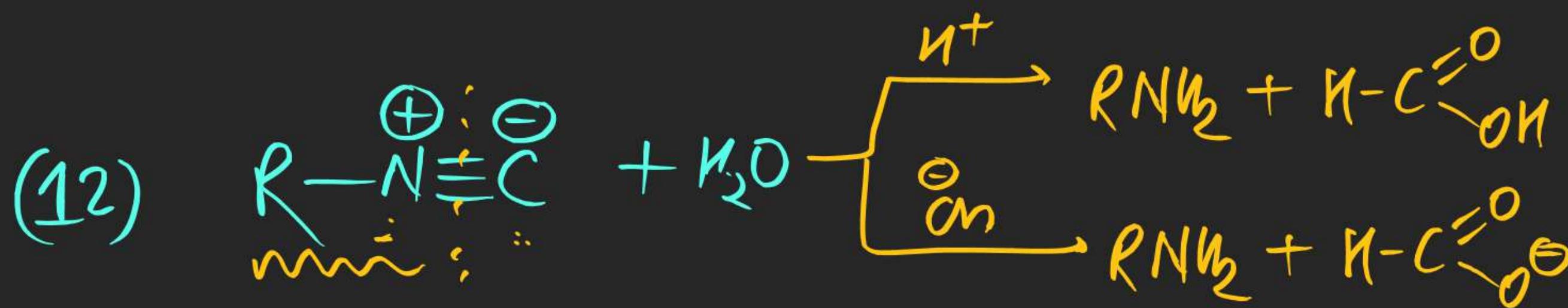
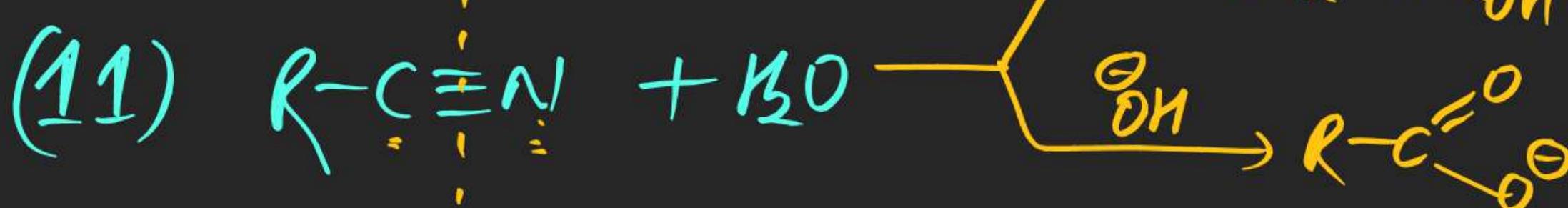


(2) By heating Carboxylic Acid:(3) By Reaction with Acid halide:

(4) By Reaction of Carboxylic Acid & Amine



# (68) By Hydrolysis of $\text{RCN}$ & $\text{R}-\text{NC}$ :



(6) Hydrolysis of Ester:

⇒ Ester on Hydrolysis gives Carboxylic Acid & Alcohol as a Product.

