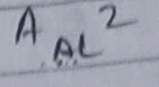
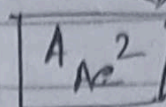
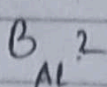
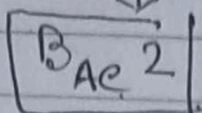


ii) Hydrolysis of ester

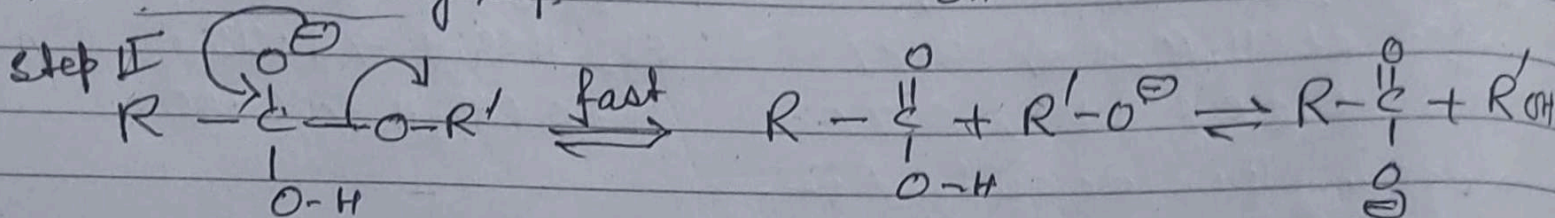
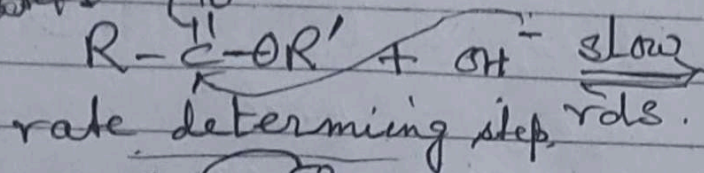
Base catalysed

Acid catalysed.

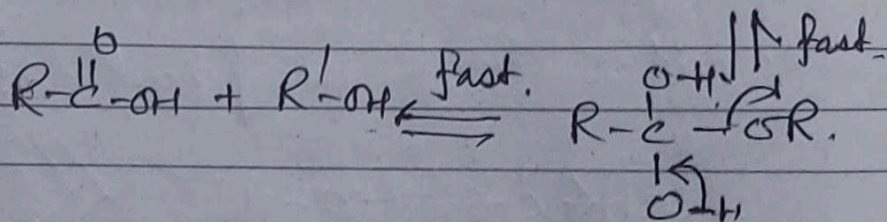
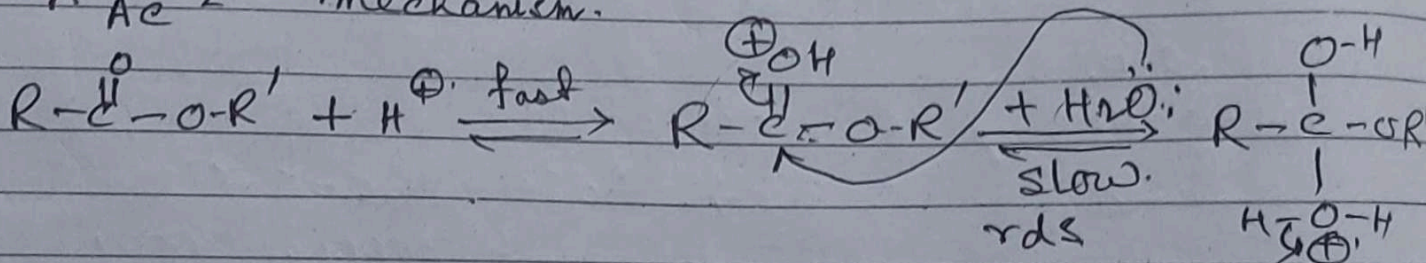


$B_{Ac} 2 \Rightarrow$ Base catalysed bimolecular $R-\overset{O}{\parallel}C-OR$ (Ester)
 $A_{Ac} 2 \Rightarrow$ Acid catalysed bimolecular Acyl bond breaking
 $A_{Al} 2 \Rightarrow$ Alkyl bond breaking

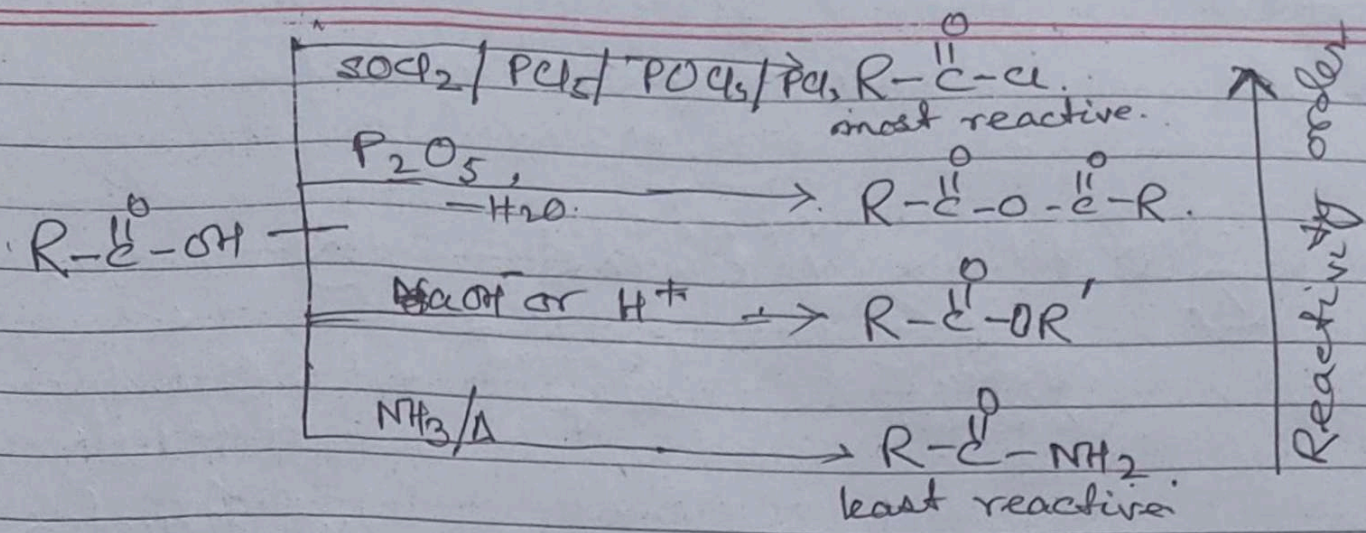
$B_{Ac} 2$ mechanism.



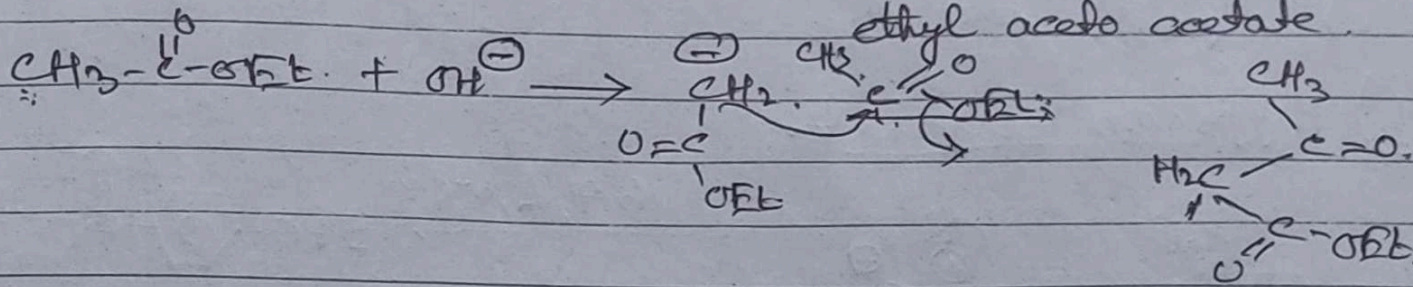
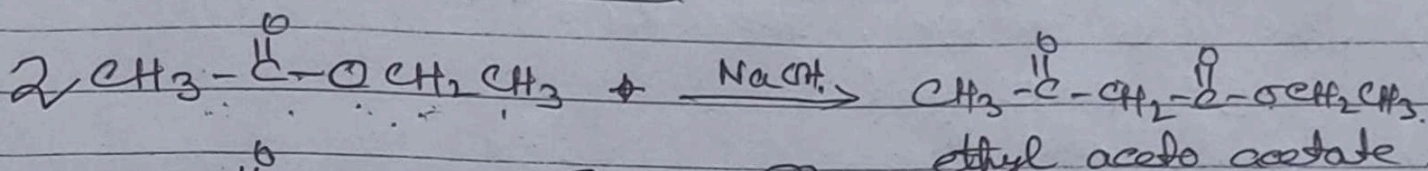
$A_{Ac} 2$ mechanism.



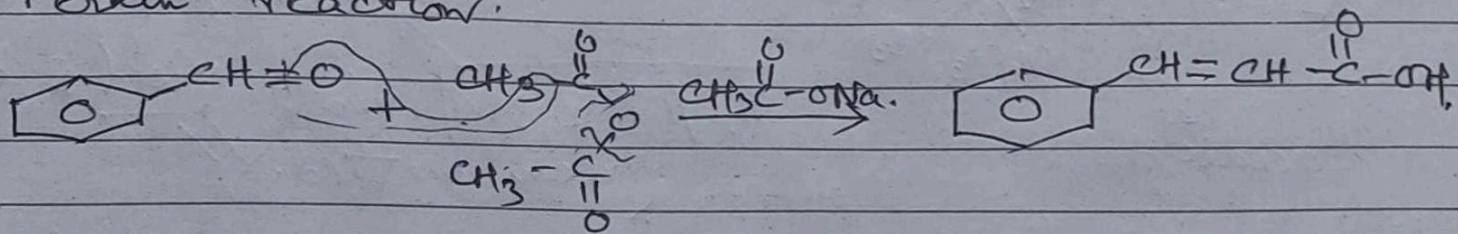
Derivative.



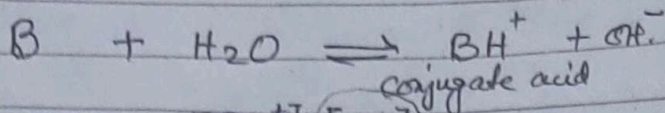
Claisen condensation:



Perkin reaction:

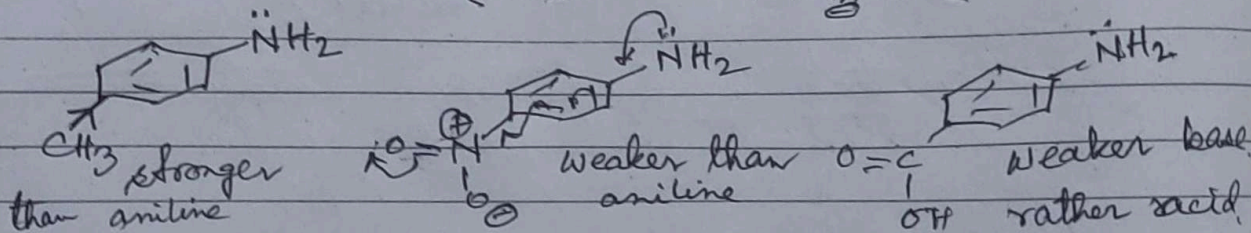
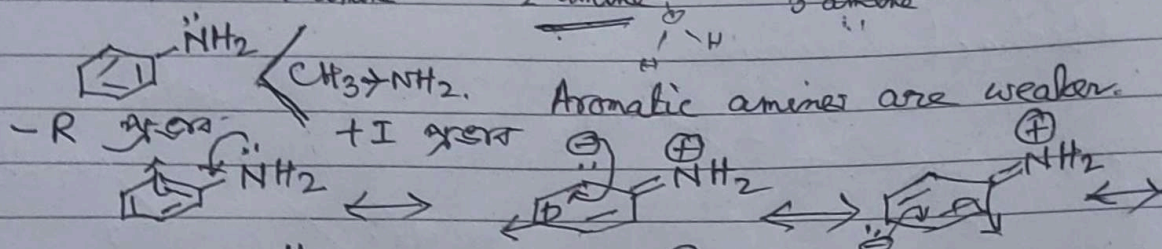
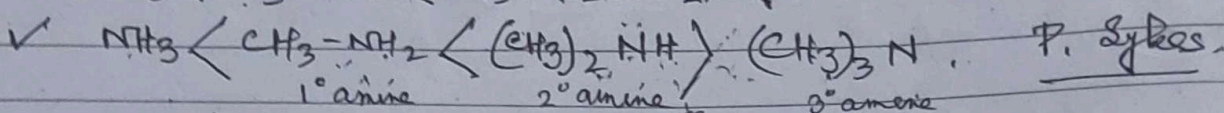
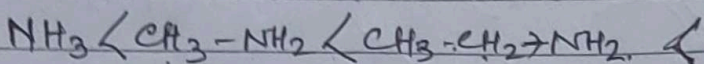
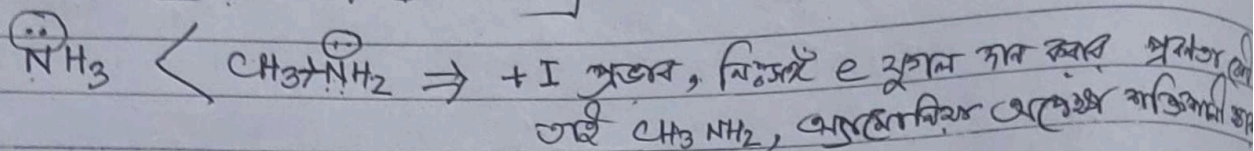


Amines & Diazonium Salts

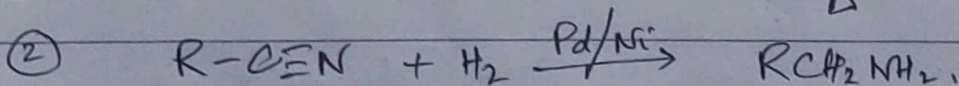
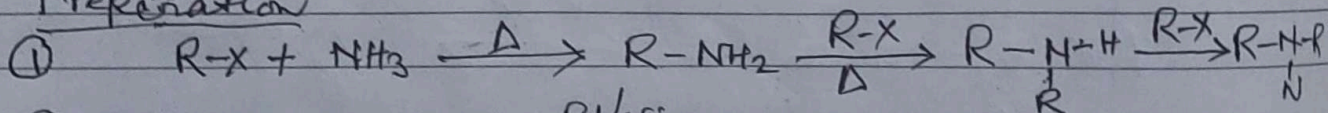


$$K_b = \frac{[BH^+][OH^-]}{[B]} \quad pK_b = -\log K_b$$

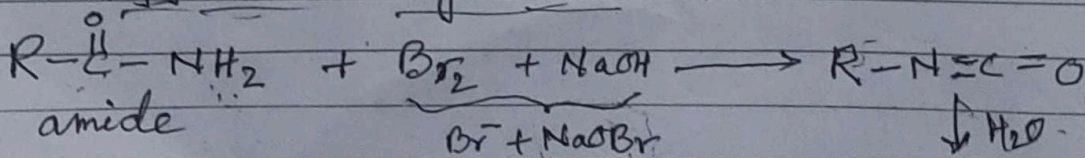
* Higher the K_b , stronger the base
 pK_b - ਜ਼ਰ ਮਨ ਸਤ ਕਰ ਰਹੇ, amines / ਭਲੇ ਚੇ ਅਭਿਮਾਨੀ.
 $[pK_a + pK_b = 14]$



Preparation

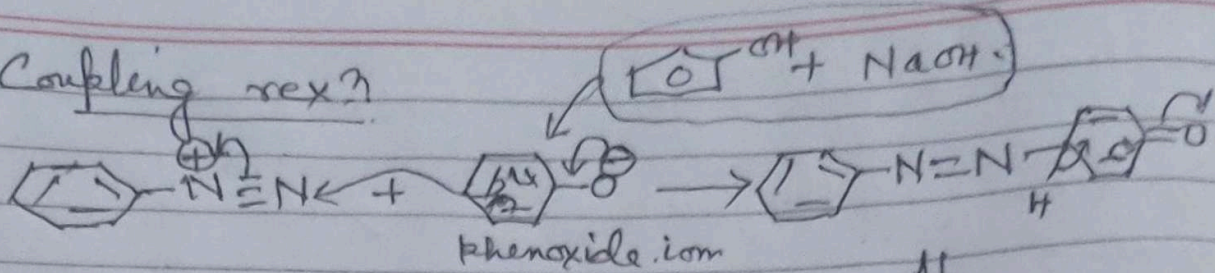


③ Hoffmann degradation :



$R-NH_2 + CO_2 \uparrow$
 1-carbon less

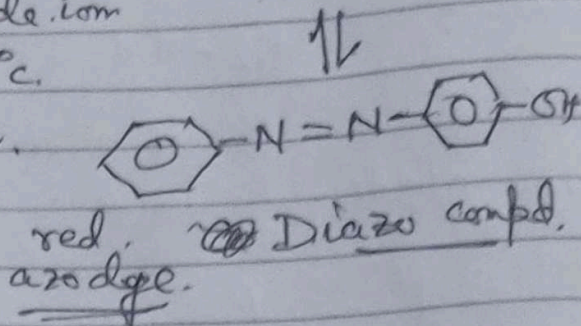
Coupling rxn?



Cond? : ① Temp must be $0-5^\circ\text{C}$.

during the whole reaction.

② PH 3-5



Reactions of diazonium salts:

1. Sandmeyer reaction:

