

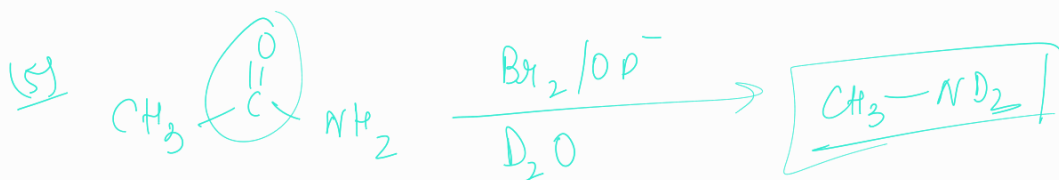
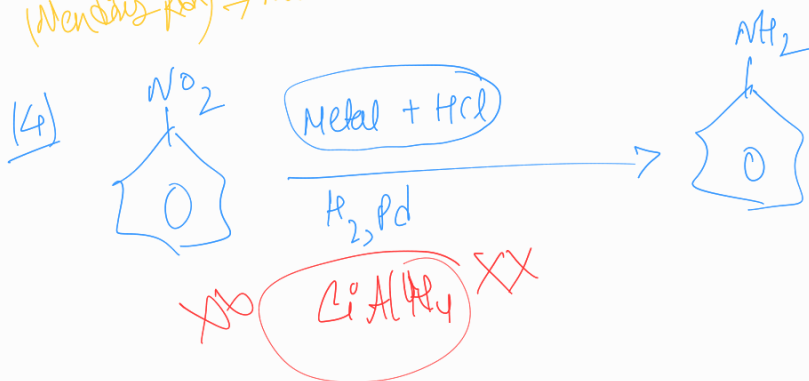
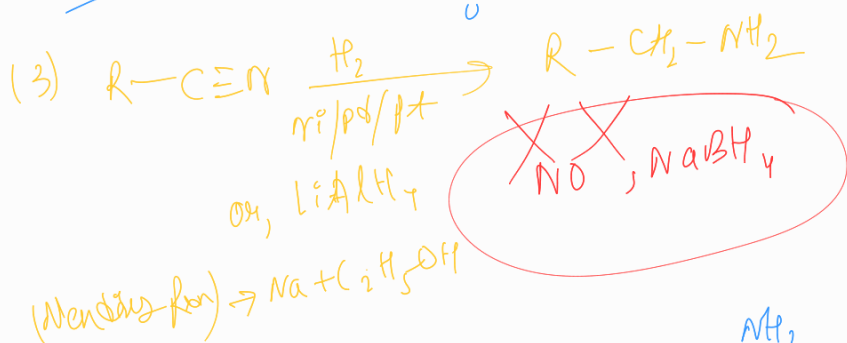
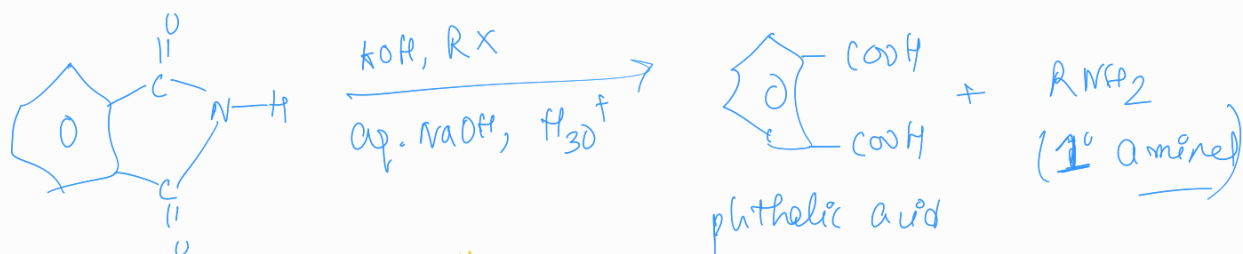
Amines



NOTE: $LiAlH_4$ and $NaBH_4$ also reduces imine
But best reagent is, $Na[BH_3CN]$ (sodium cyano-borohydride)
in reductive amination.

(2) Gabriel phthalimide :-

Preparation of aliphatic amines



Hofmann-Bromamide Degradation \rightarrow is only for 1° amine

(6) Boiling Point \rightarrow



(7) Basic strength of Amines :-

+I \rightarrow $3^\circ > 2^\circ > 1^\circ$ (Amine)

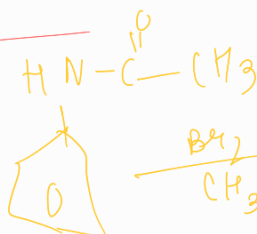
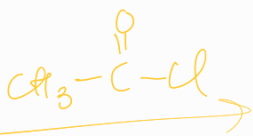
H-bonding \rightarrow $\text{NH}_3 > 1^\circ > 2^\circ > 3^\circ$

2° amine is the most basic

aq. phase \rightarrow $1^\circ > 3^\circ > 2^\circ$ ($R = \text{CH}_3$)

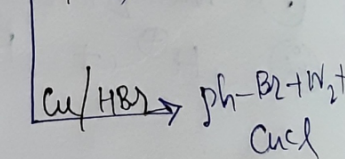
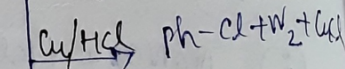
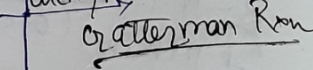
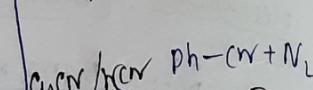
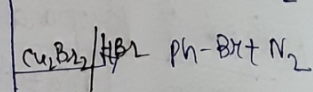
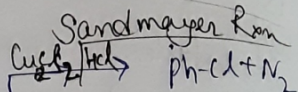
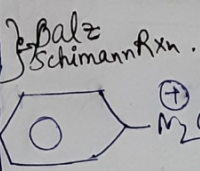
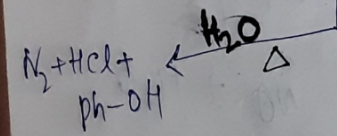
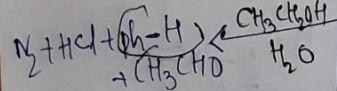
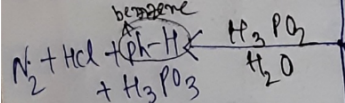
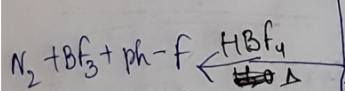
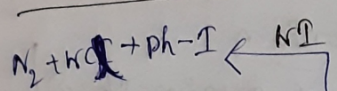
$2^\circ > 3^\circ > 1^\circ$ ($R \neq \text{CH}_3$)

(8) Preparing mono-substituted aniline \rightarrow



vvi

Rxn involving displacement of N_2



Note \rightarrow ph \rightarrow Benzene