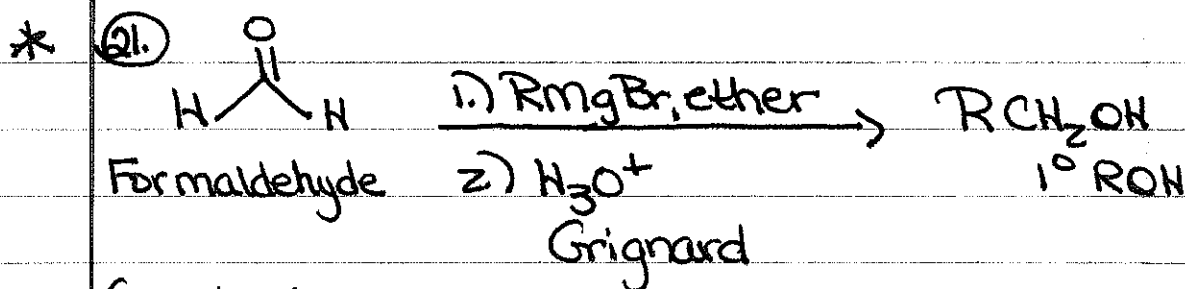


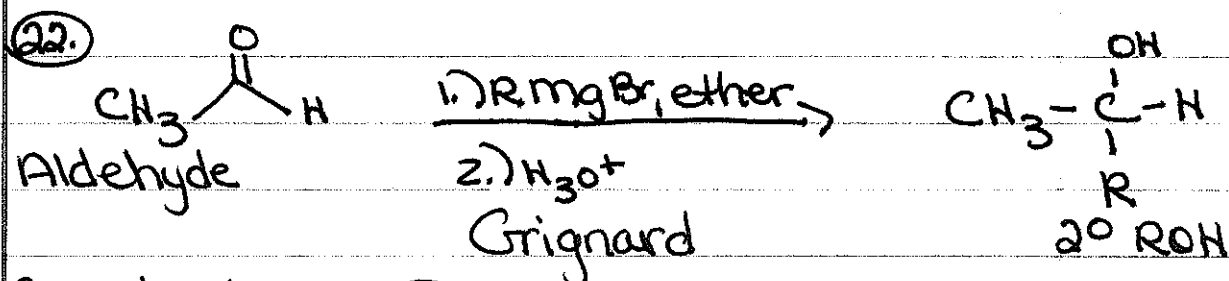
* Reactions of aldehydes + ketones

* = Mechanism was shown

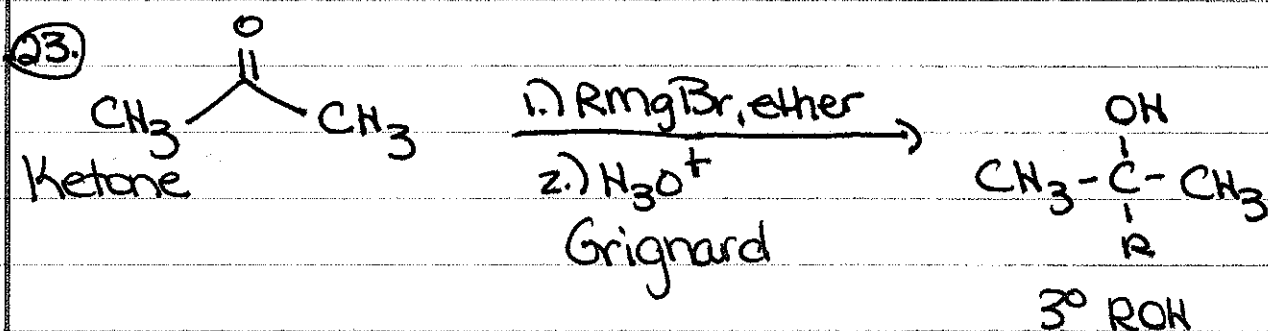
Mechanisms are shown on answer sheets to worksheets



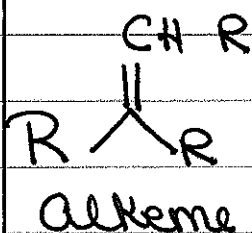
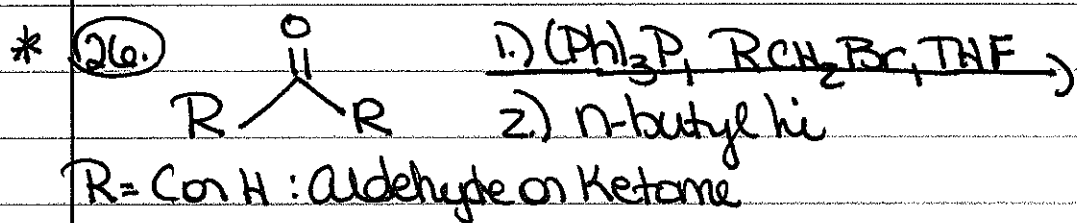
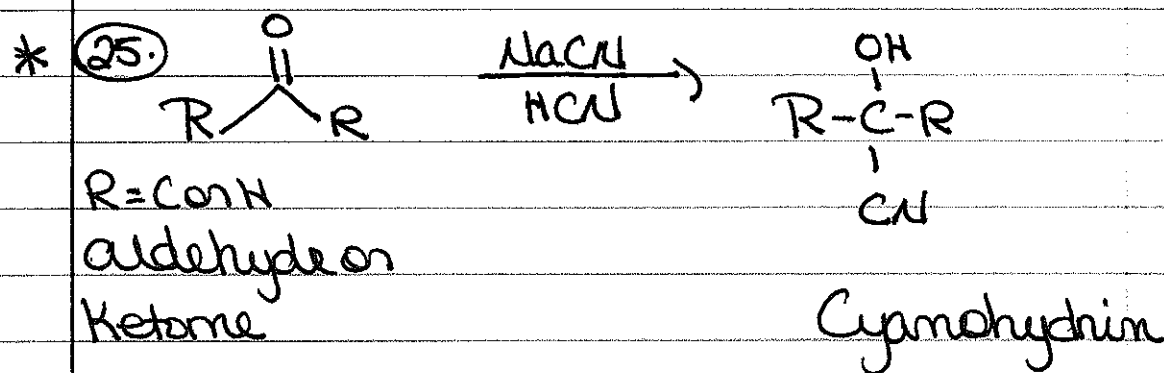
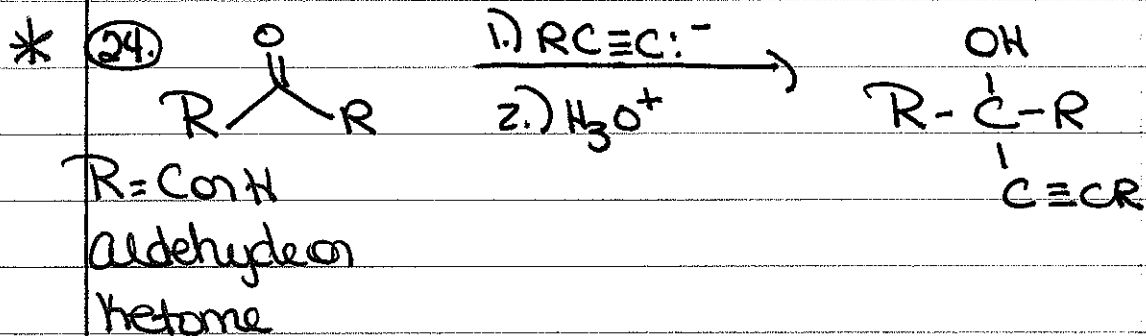
Could also use R_2Ni



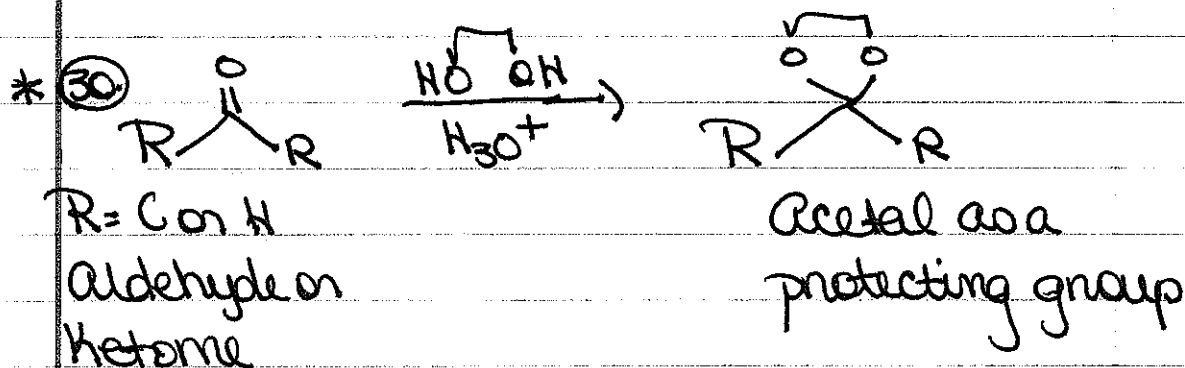
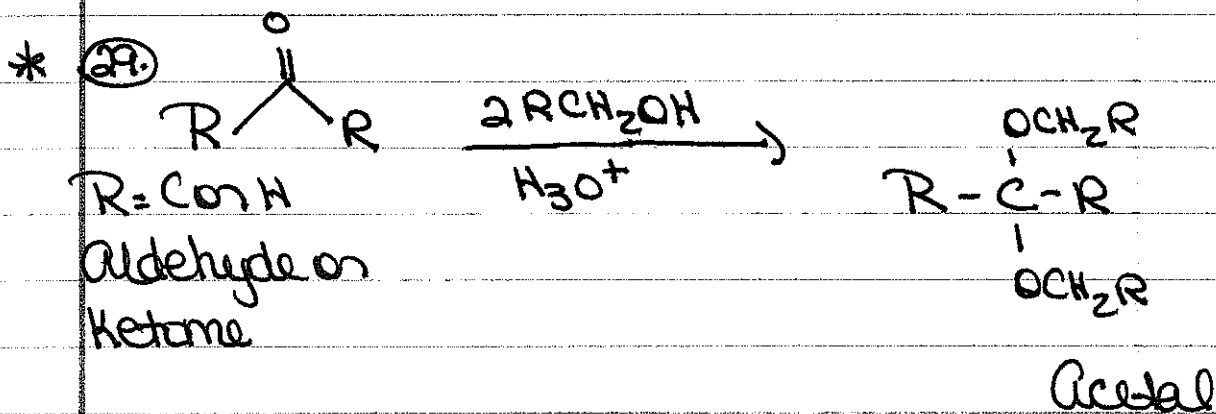
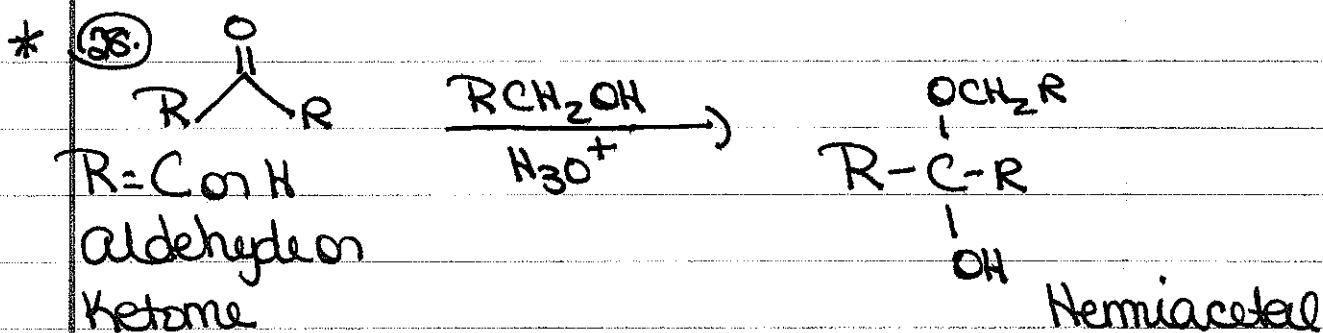
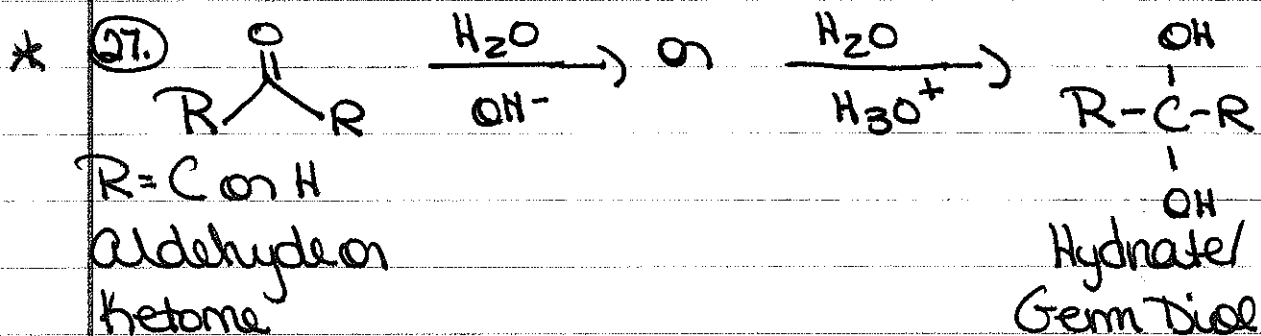
Could also use R_2Ni

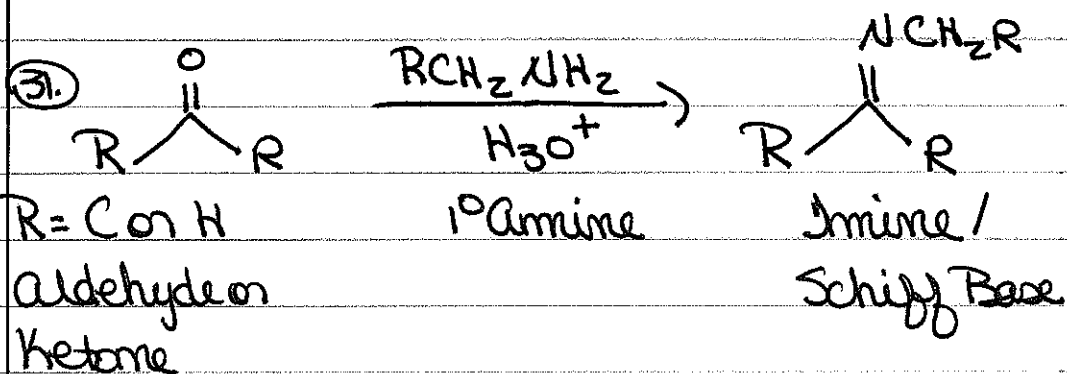


Could also use R_2Ni

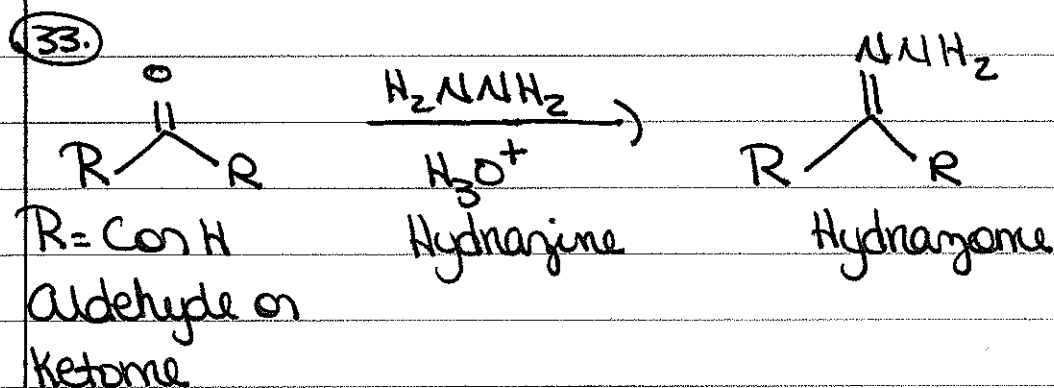
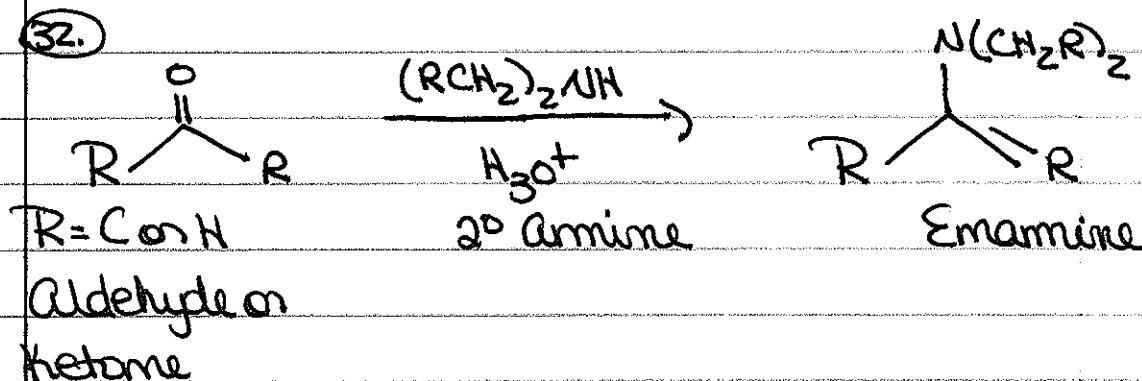


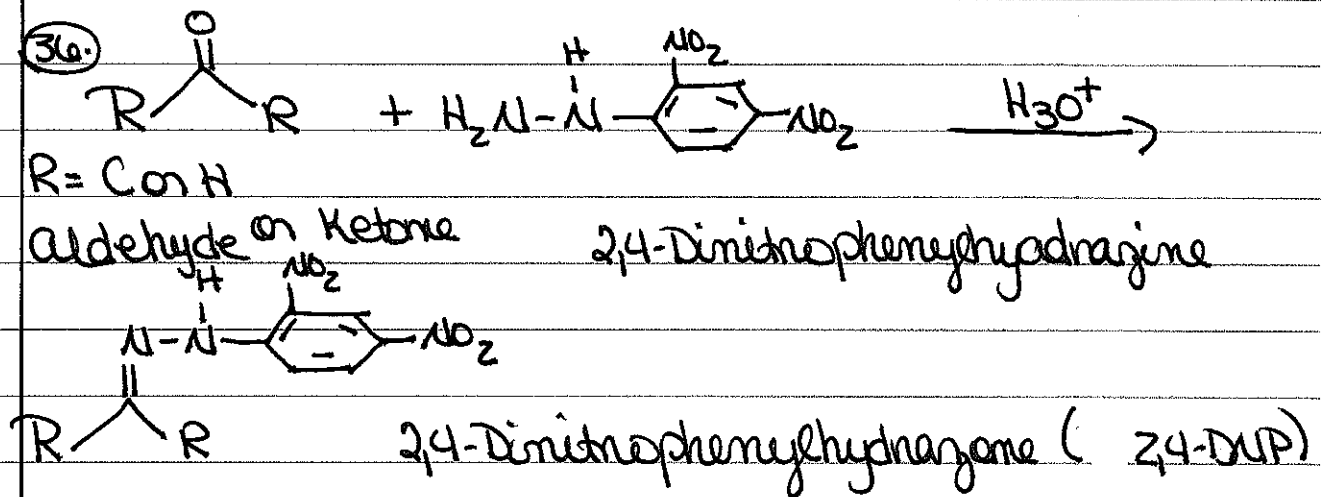
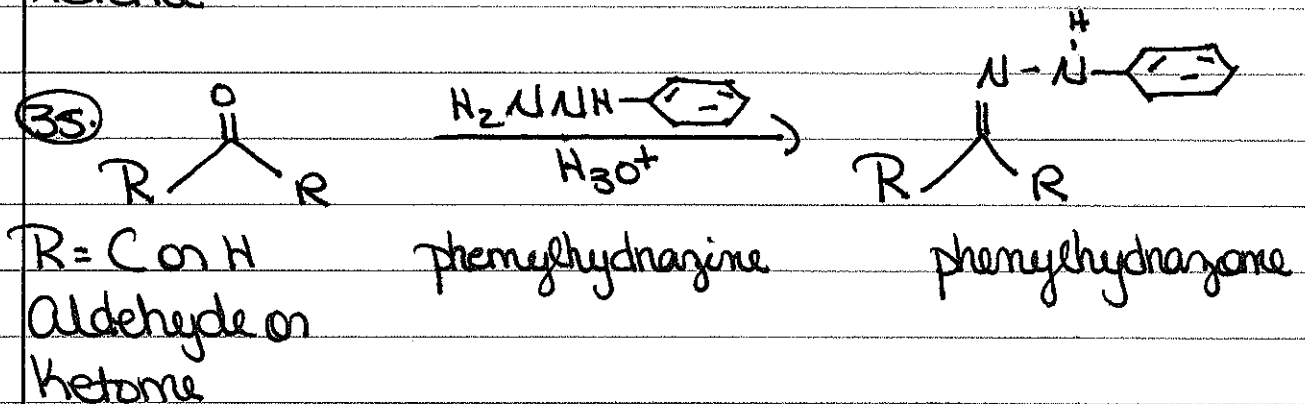
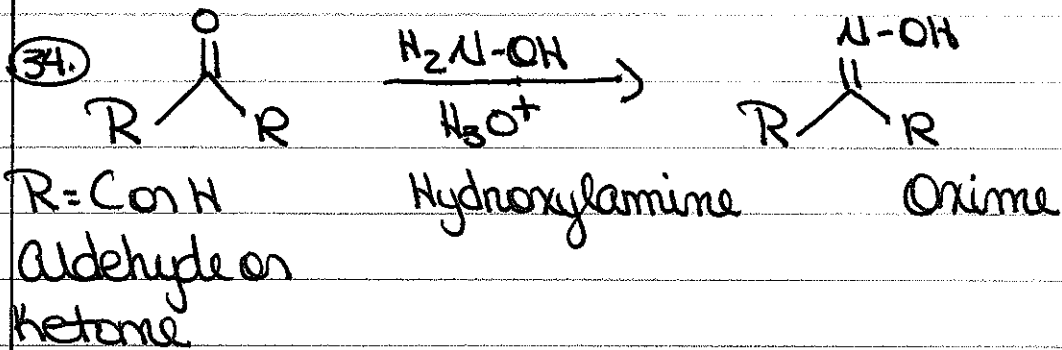
Wittig Rxn: Nucleophile = ylide:
Betaine + Oxaphosphetane int.

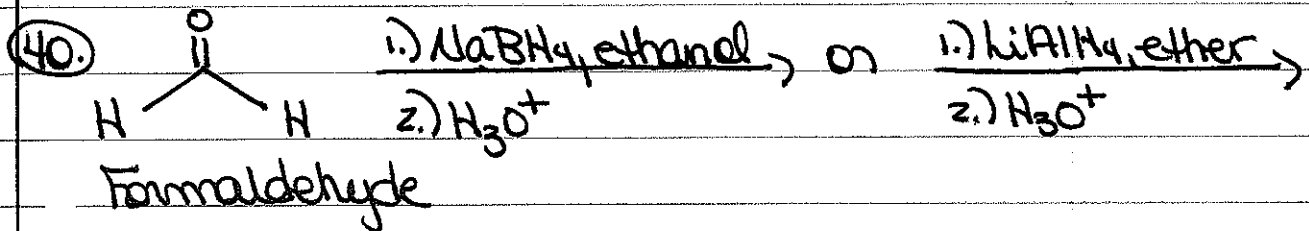




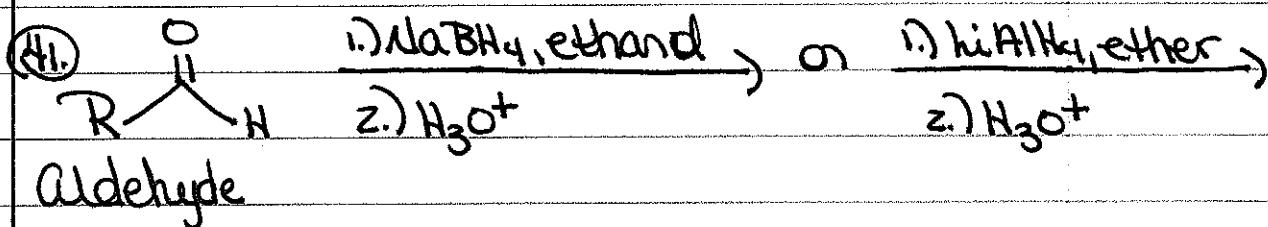
pH of rxn must be controlled (pH \approx 4.5)



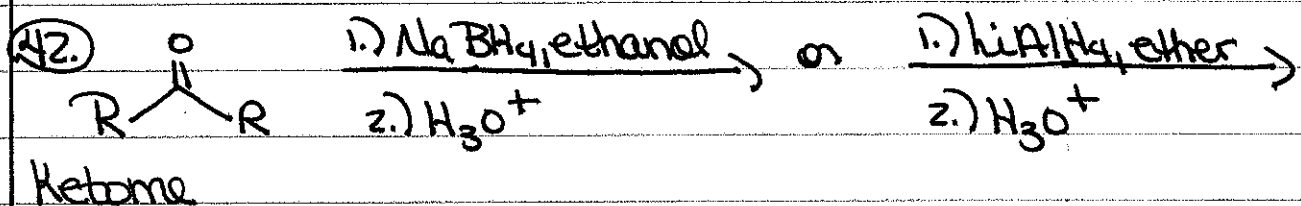




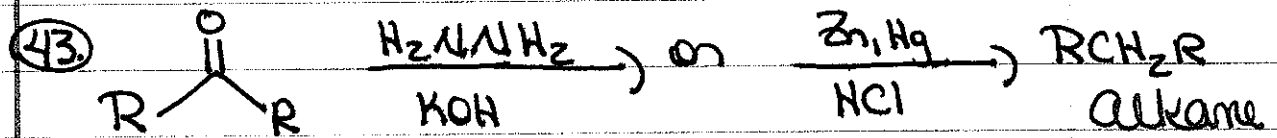
CH_3OH Methanol
 Reduction: Could also use NaBH_3CN



RCH_2OH 1°ROH
 Reduction: Could also use NaBH_3CN



$\begin{array}{c} \text{RCH} \\ | \\ \text{OH} \end{array}$ 2°ROH
 Reduction: Could also use NaBH_3CN



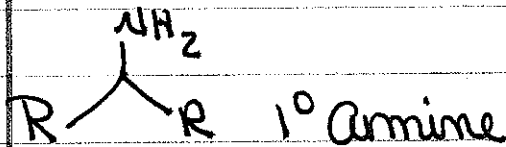
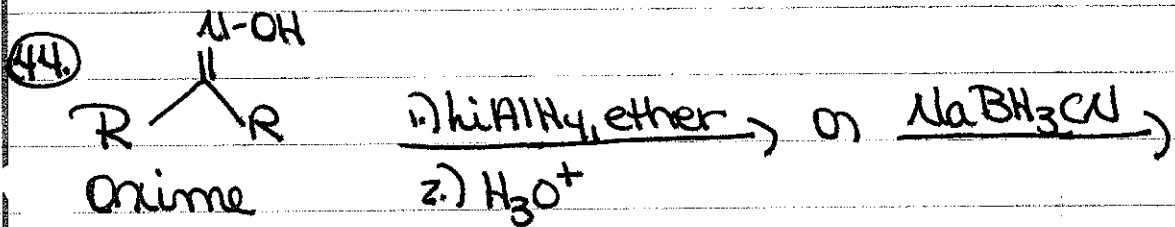
R = C or H
 Aldehyde or
 ketone

Wolf-

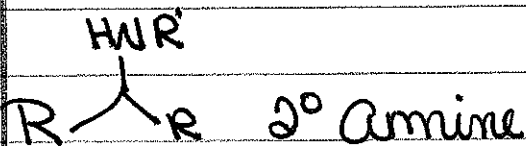
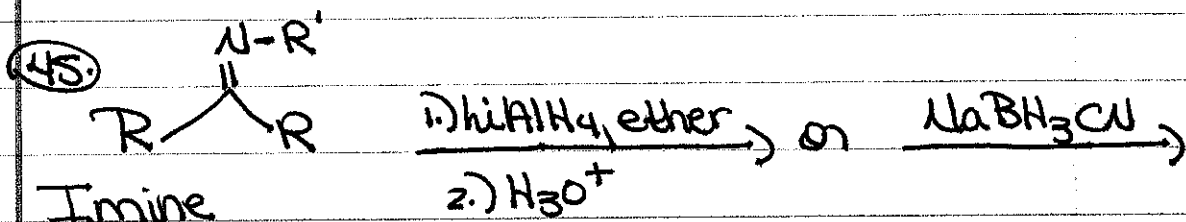
Kistner

Clemmensen

Reduction



Reduction



Reduction

