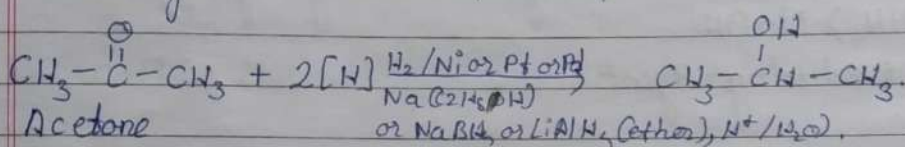
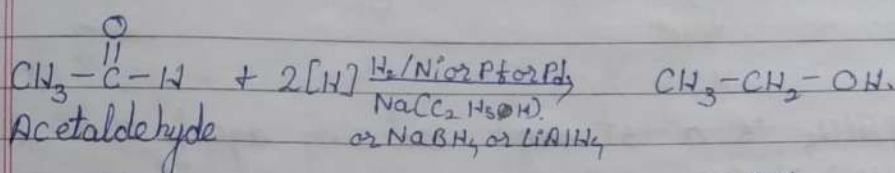
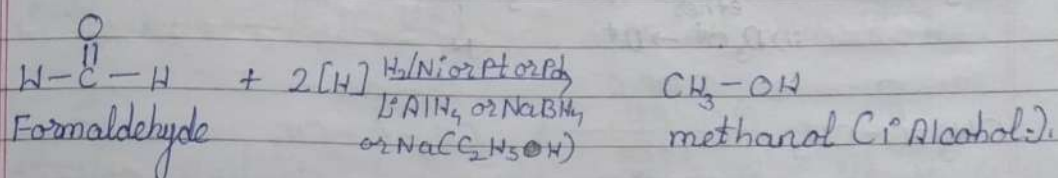


ALCOHOL PHENOL & ETHER #2

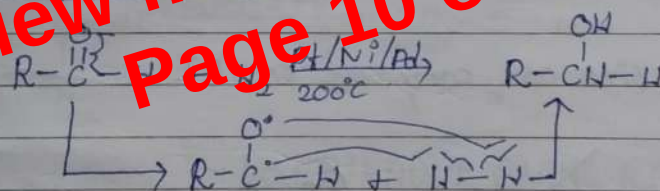
ALCOHOL 03 - Preparation

- Preparation of alcohols from carbonyl compounds $\rightarrow$ aldehydes & ketone $\rightarrow$ By Reduction



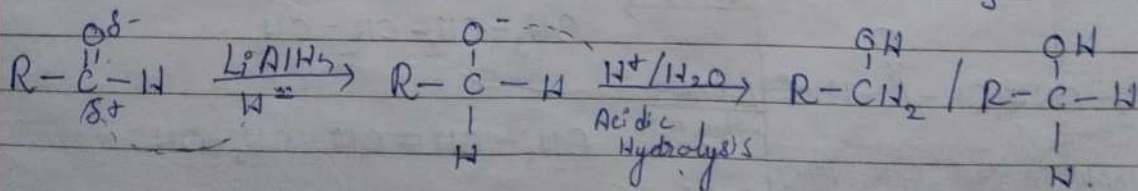
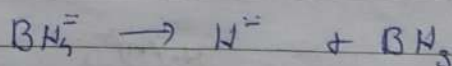
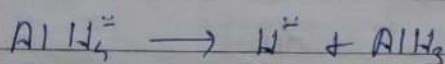
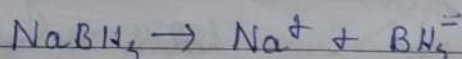
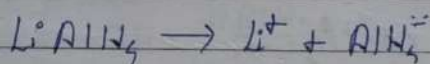
* Limitation of this method is that 3° alcohol are not made from this process.

Free Rad. Mechanism $\xrightarrow[\text{200}^\circ\text{C}]{\text{H}_2/\text{Ni or Pt or Pd}}$



Mechanism ii) LiAlH_4 or NaBH_4

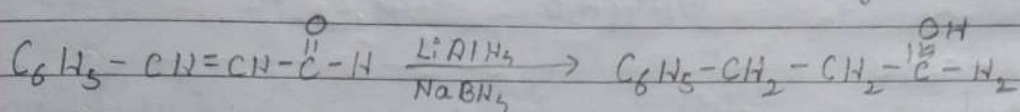
$\hookrightarrow$ Work as a donor of H^- or H^+



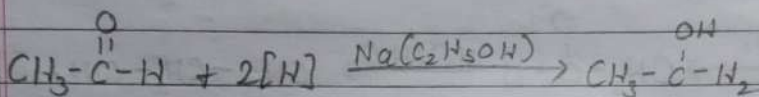
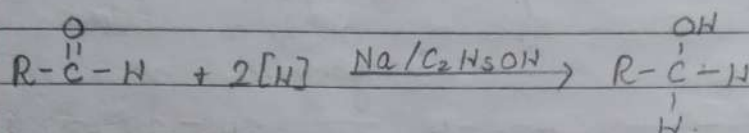
'H' atom on 'C' comes on LiBH_4 & LiAlH_4
 'H' atom on 'O' comes from $\text{H}_3\text{O}^+/\text{H}_2\text{O}$.

1) H_2/Ni or Pt or Pd Reduces $C=C$ as well as $C=O$.

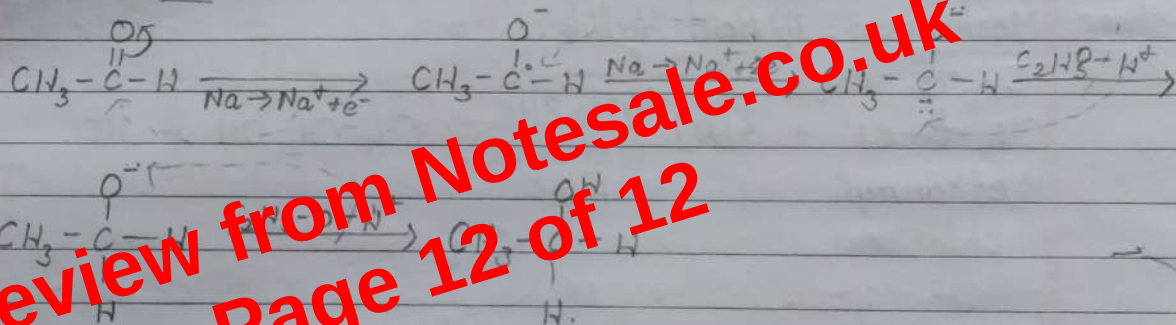
2) But $LiAlH_4$ or $NaBH_4$ reduces not $C=C$ only $C=O$.



Similar Reduction can be obtained with Na/C_2H_5OH .



Mechanism:



- BOUVEAULT BLANC REACTION

2. Preparation of Alcohols from Carboxylic Acids & it's Derivatives.

