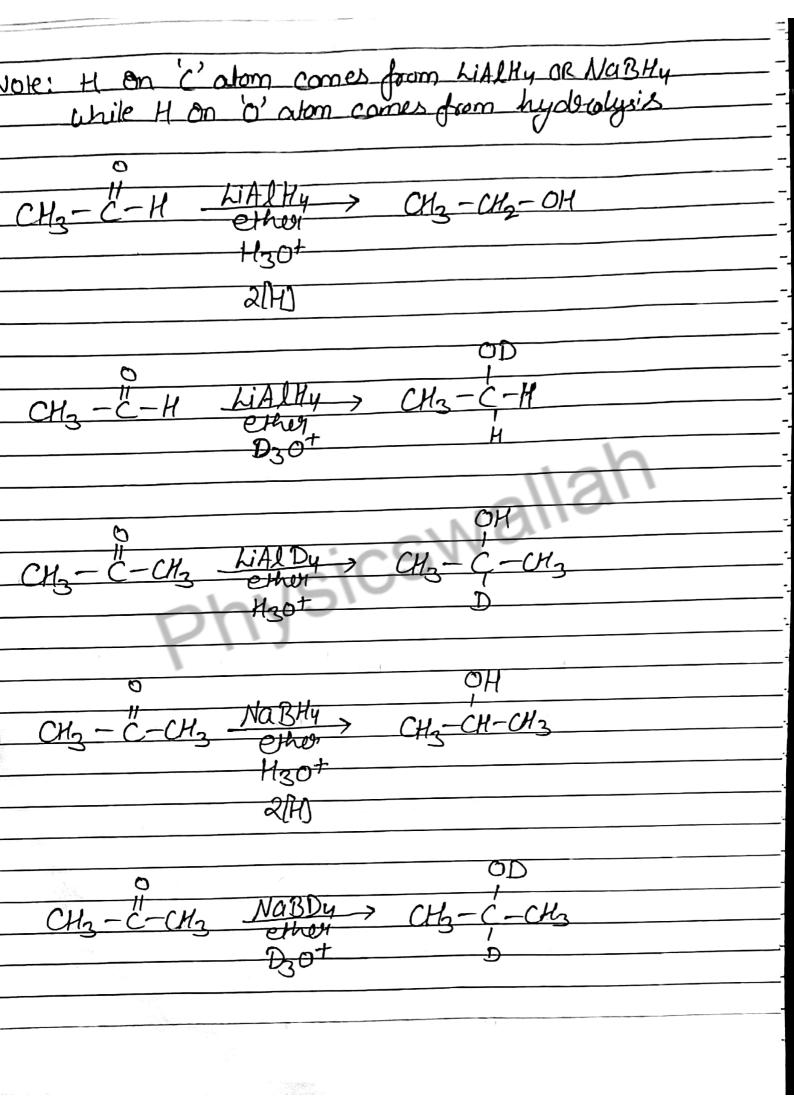
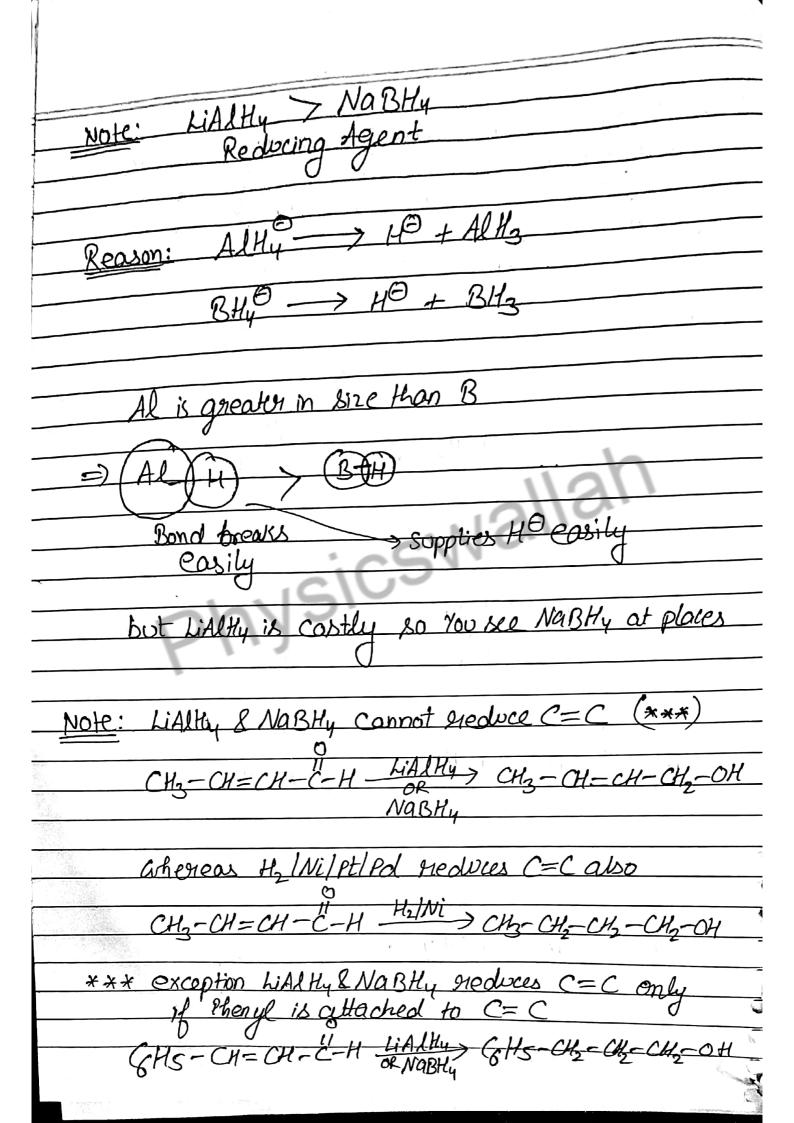
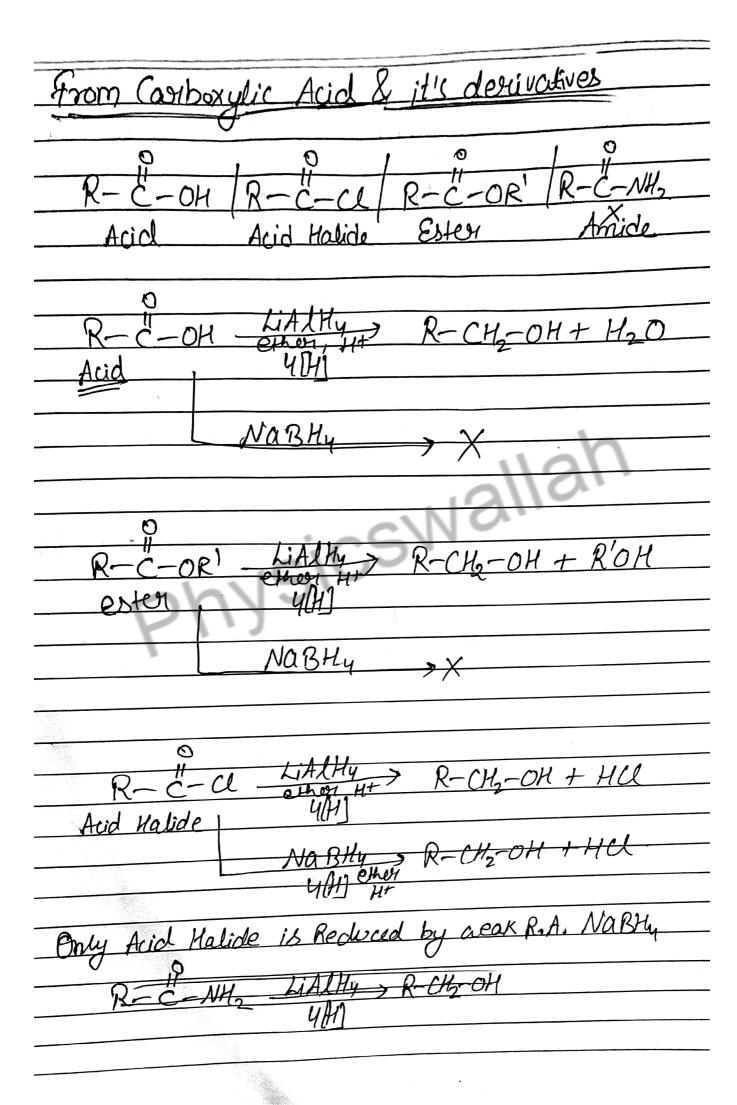
Preparation of Alcohols-2
1 SIE DUILLE G
From Canbonul Compands, Canboxylic Acid & it's derivatives
From Carlbonyl Compands, Carlboxylic Acid & it's derivatives By Reduction
(1) Carbonyl Compounds — C— ⇒ Aldehyde & Ketone
1) Carlonyl Compounds - C- => Alderyde & Ketone
O WALKY > CH - OH
H-C-H + 2H LiAlHy CH3-OH Formaldehyde Na BHy methanol (i) or Halnilpt/Pd
Formaldehyde Na Bry Menand
H2/NIIPHPd
b
$CU = C - H + 2H - " \rightarrow CH - CH - OH$
CH3-C-H + 2H — " > CH3-CH2-OH Arctaldehydo ethanol (i°)
HI CHEXILENGIO
OH
$\frac{CH_3-C-CH_3+2H-"}{CH_3-CH-CH_3}$
Acetone propon-2-ol (2°)
3° Alcohols cannot be obtained by this method
O
Mechanism
(i) with H2/Pt/Ni/Pd -> Free Radical
R-C-H+H2 Ni R-CH3-OH
R-C-H+H-H-
TH-C-H+H-H-

(in solvent etner followed by Acidic hydralysis) (ii) with LiAlty or NaBHy >Na+BHY NaBHy-> Li+ + Al H4 LiAlHy BH4 ->HO + Alta hydride CH2-CH2-OH emon H30+ विभि





One More Reducing Agent Na/C, MOH is also used Bouveault Blanc Reduction R-C-H + 2[H] Na/CHSOH R-CH3-OH R-C-H-Na-Na++C Mechanism R-C-H Na-Watte



Mechanism: Acid W -H20 LiAlHy -> HO R-C ROH

