

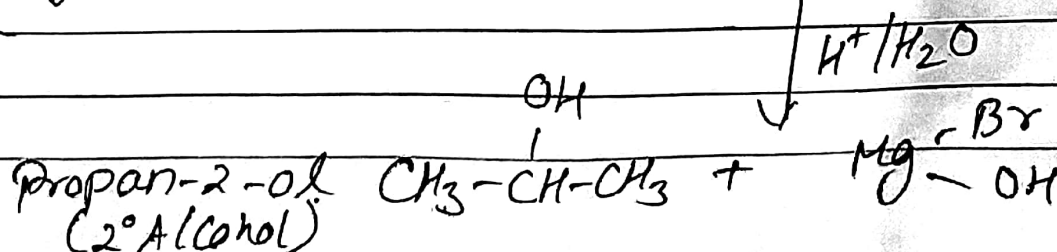
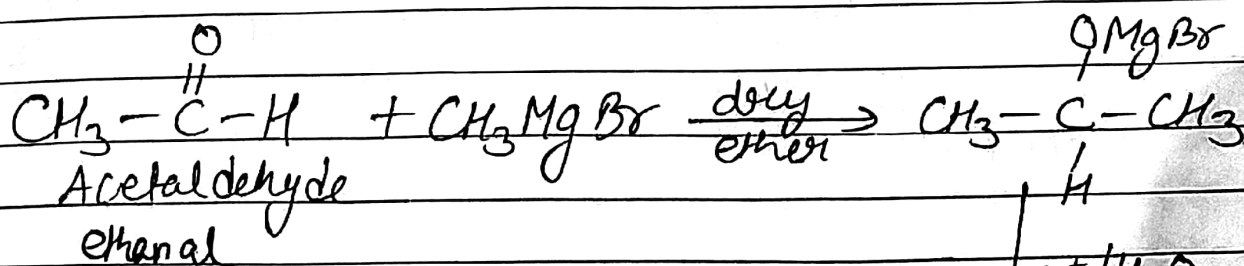
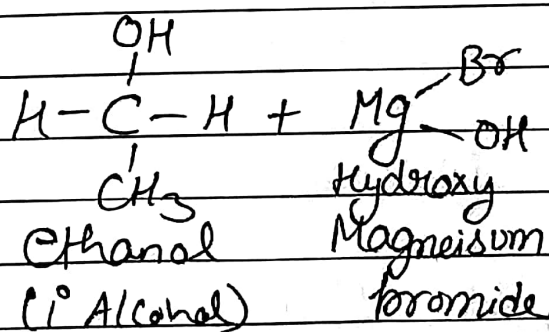
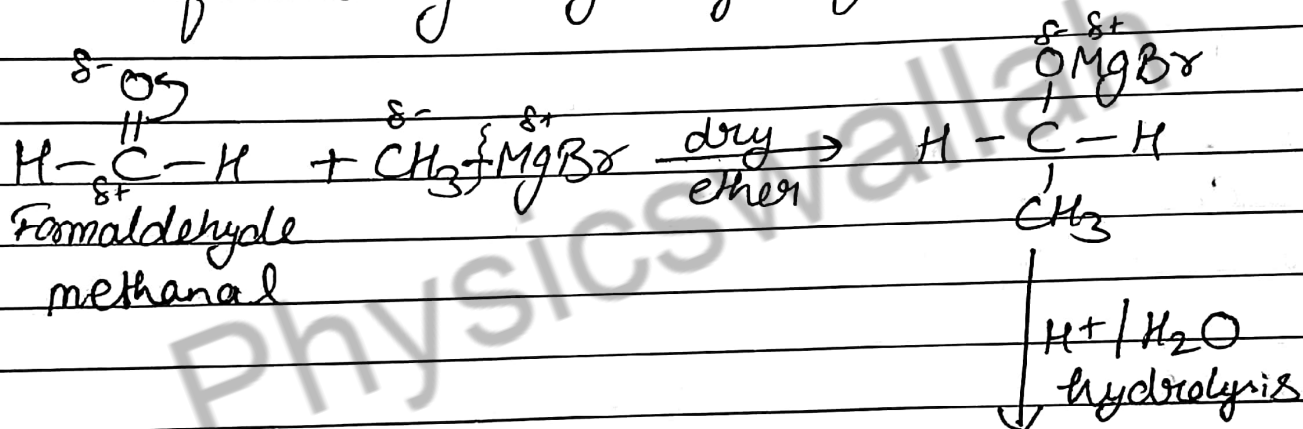
Alcohols, Phenols & Ethers - 04

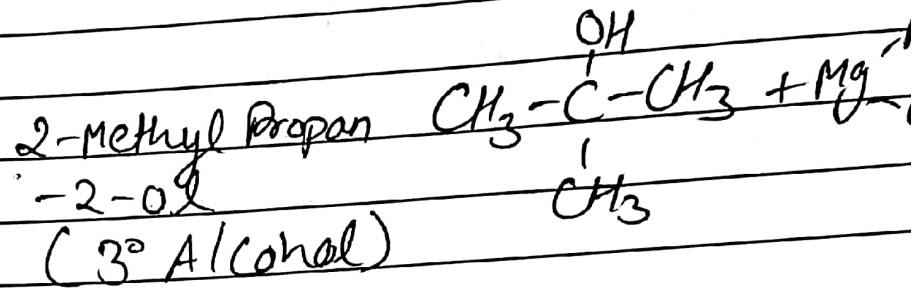
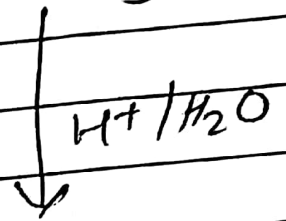
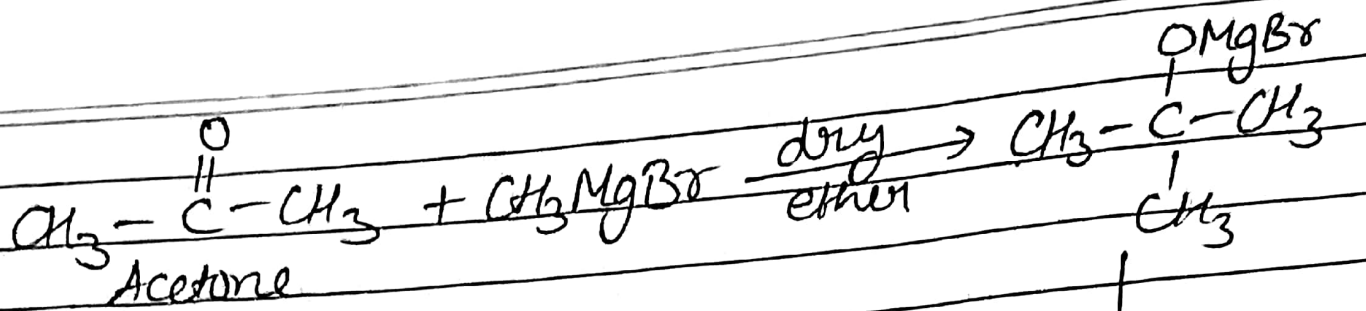
Preparation of Alcohols - 3

From Grignard's Reagent with Carbonyl Compound
& From Amines

① Grignard's Reagent with Carbonyl Compound. (R-MgX)

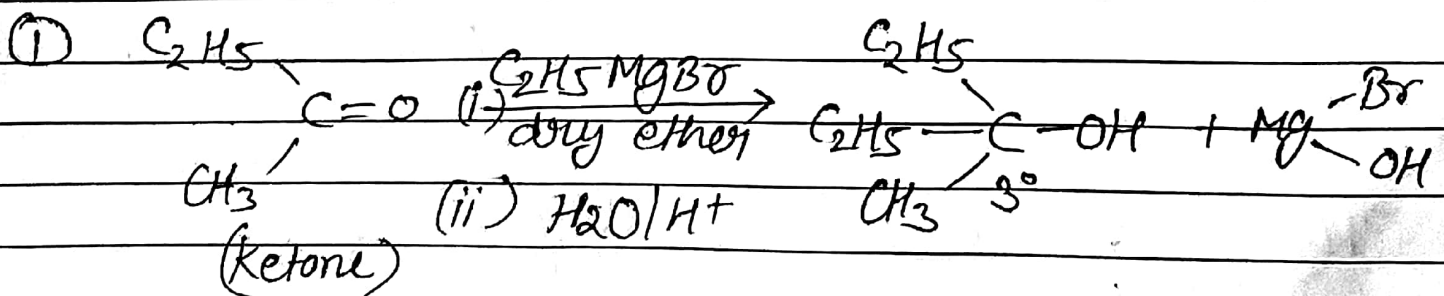
Nucleophilic Addition of R-MgX takes place on $\text{C}=\text{O}$ followed by hydrolysis gives alcohol.

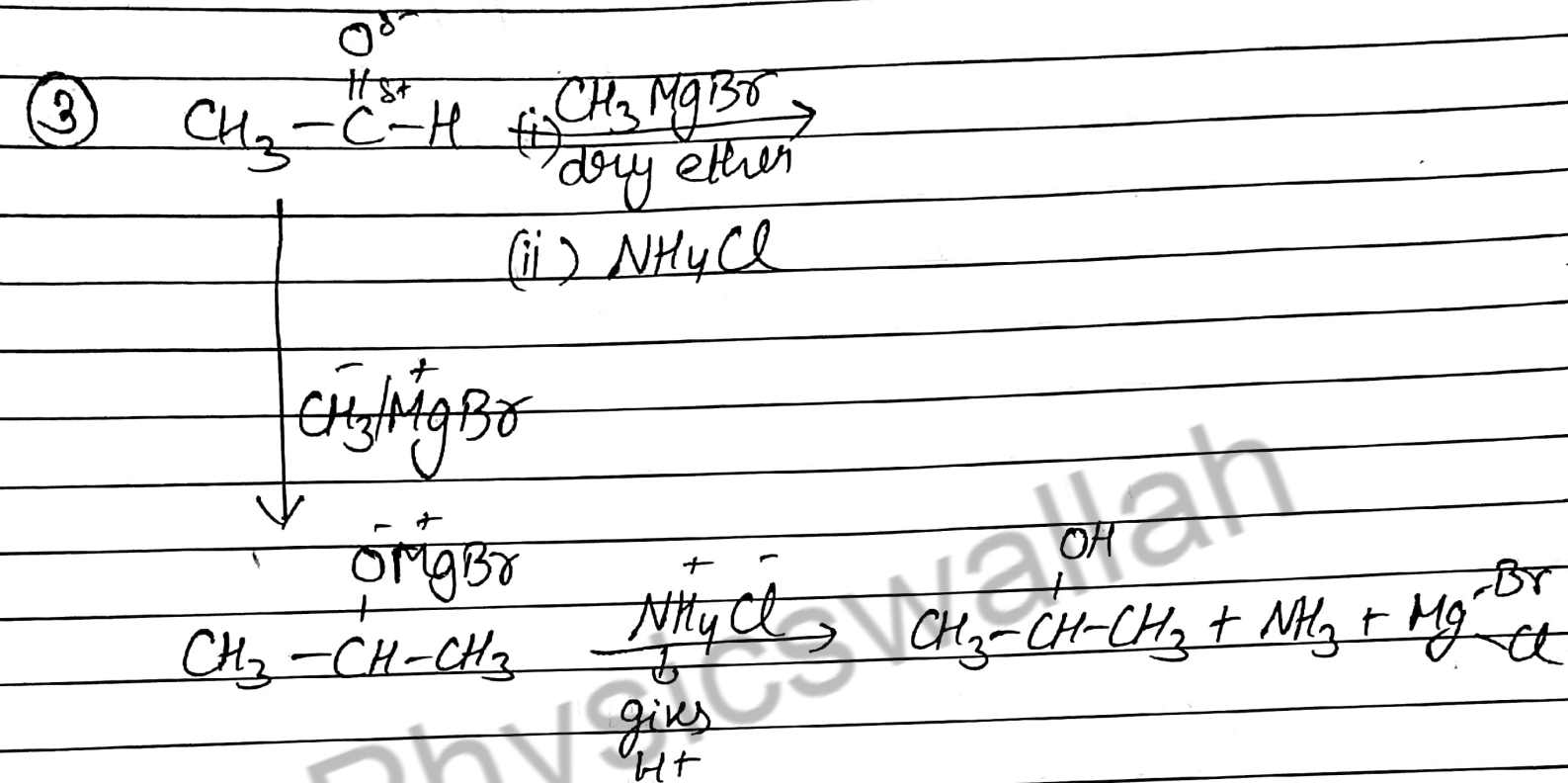
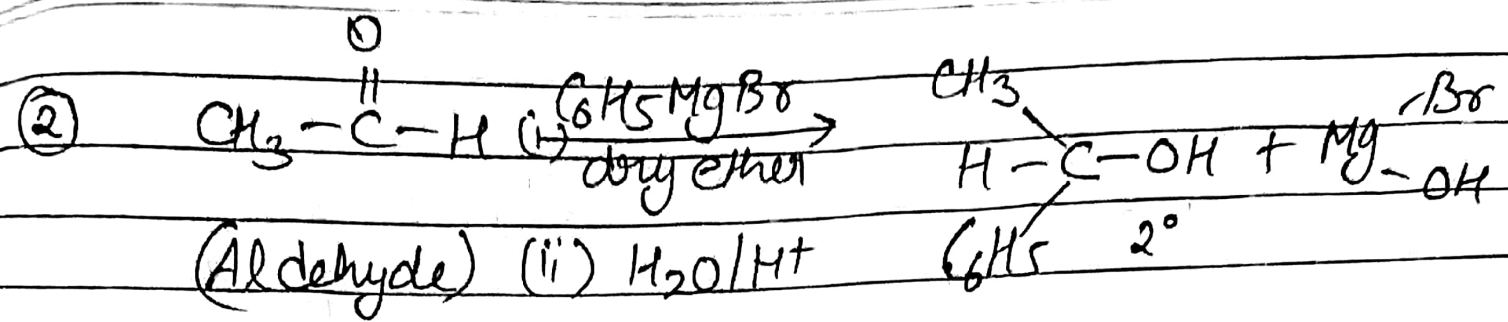




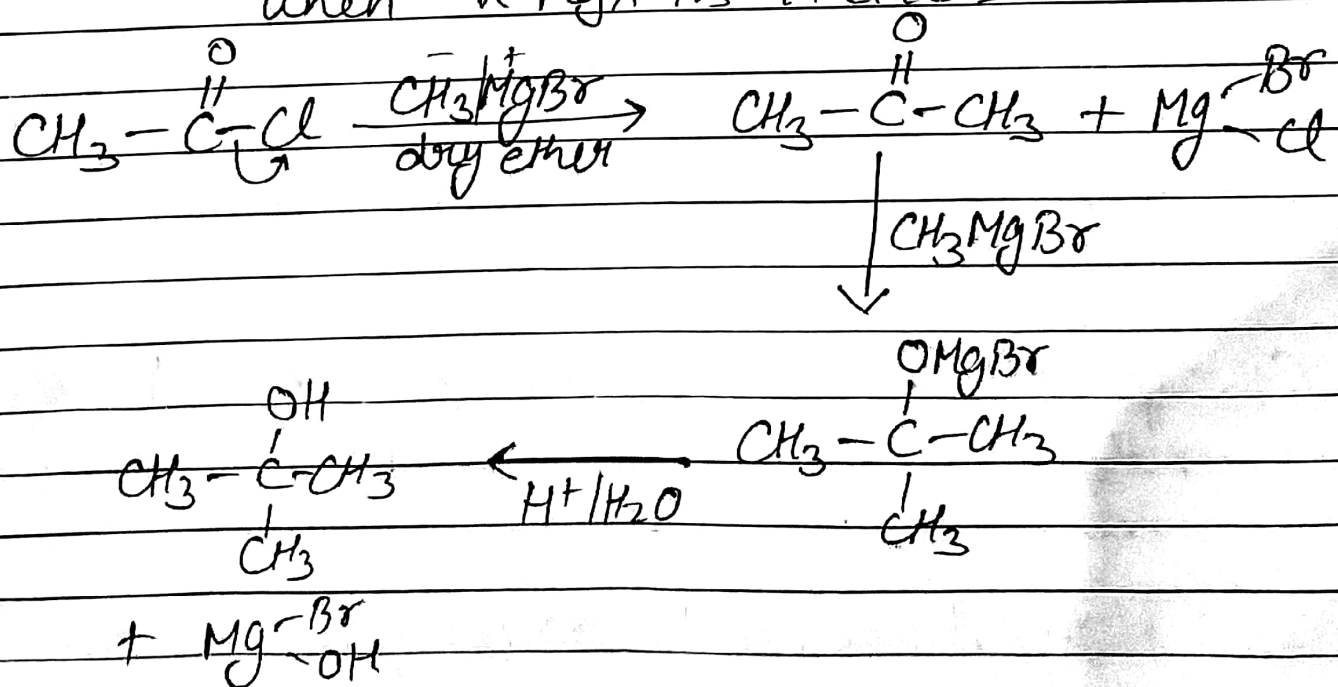
- (i) Formaldehyde \longrightarrow 1° Alcohol
- (ii) Acetaldehyde or any other aldehyde \longrightarrow 2° Alcohol
- (iii) Acetone or any ketone \longrightarrow 3° Alcohol

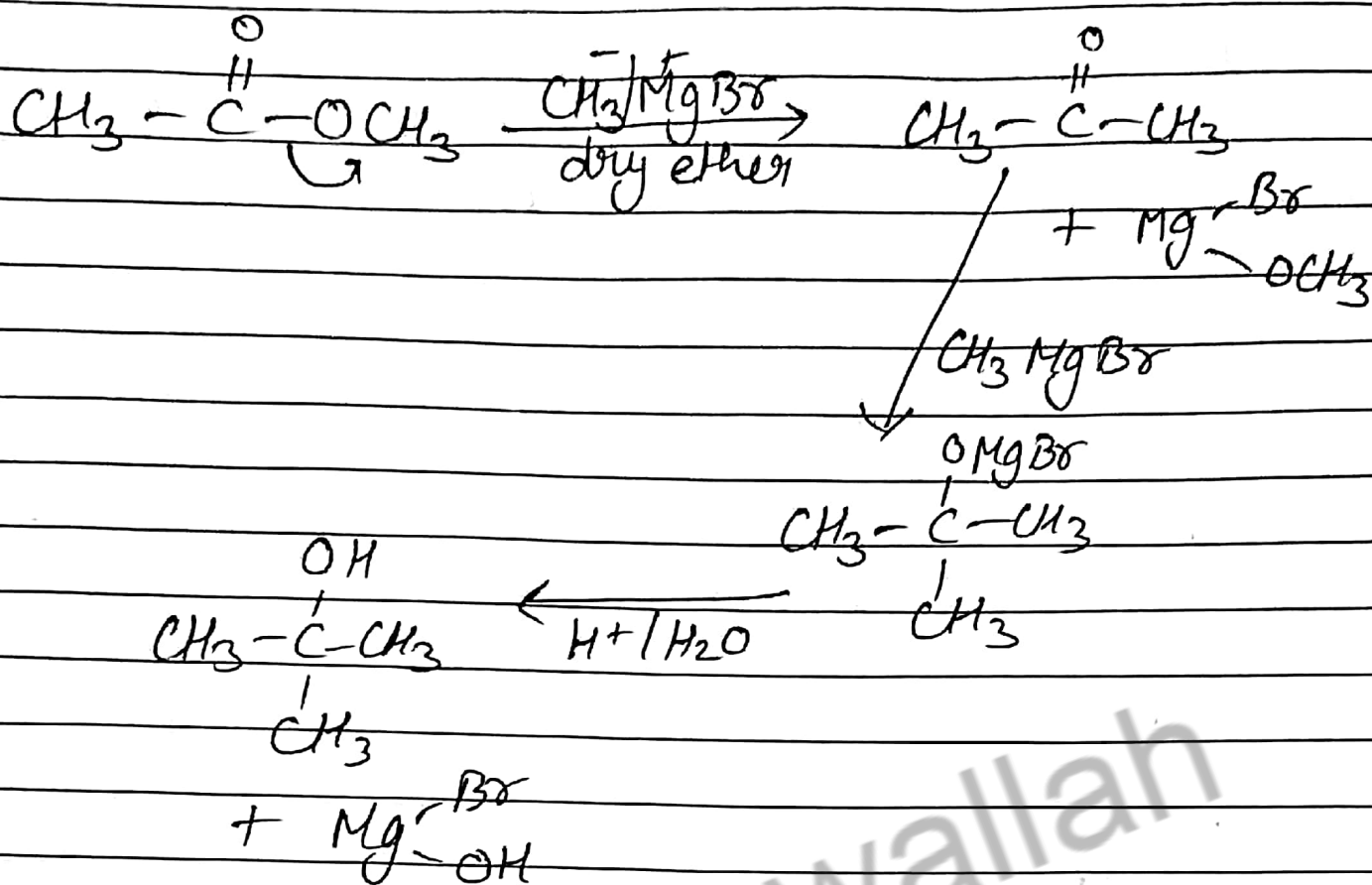
Questions



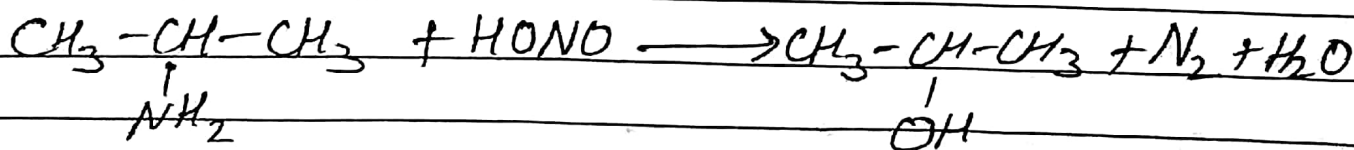
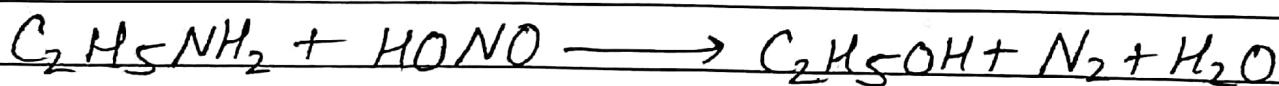


Note: Similar Reaction occurs with Acid derivatives when R-MgX is in excess





② From Amines : Action of HNO_2 (Nitrous Acid)
(1° Amines) OR ($\text{NaNO}_2 + \text{HCl}$)



Note: Methyl Amine CH_3NH_2 do not give this reaction

Trick To remember

