

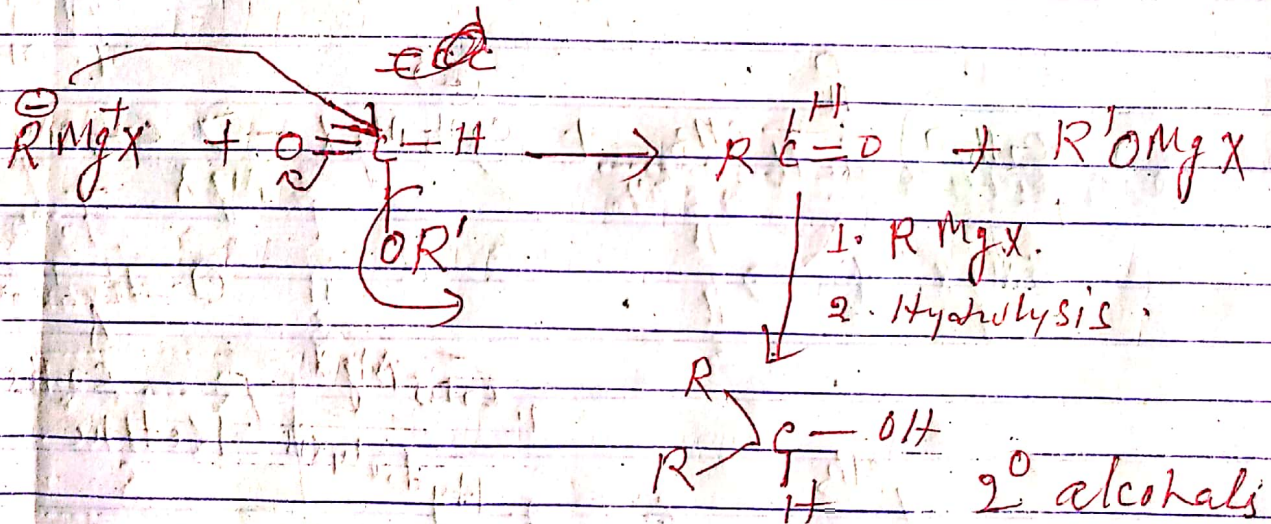
Reaction of Grignard reagent (Part-B)

Reaction of Grignard reagent with formaldehyde, aldehyde and ketone is already given in earlier notes. Now I shall ~~describe~~ state other reactions which are very useful for students in conversions and what happens when

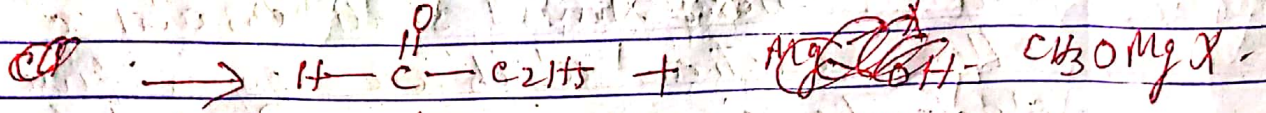
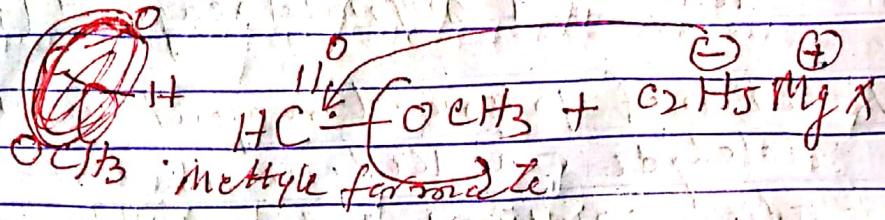
1. Reaction with Esters - It reacts with Esters in two steps.

(i) First step leads the formation of aldehyde ~~with~~ by addition-elimination reaction.

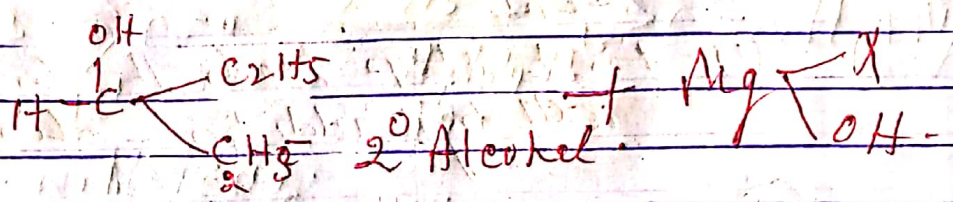
(ii) In second step it reacts with aldehyde as it was written in previous class notes.



Examples - Reaction of Ethyle Magnesium Bromide with methyl formate.

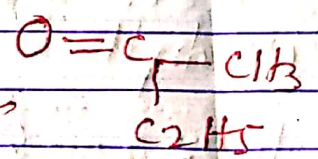
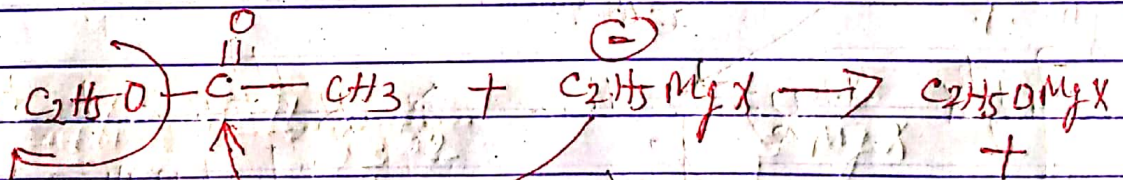


1. $\text{C}_2\text{H}_5\text{MgX}$
 2. Hydrolysis



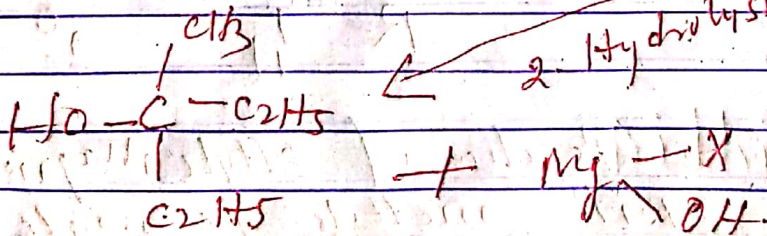
pentan-2-ol

22) with methyl acetate →



Ketone

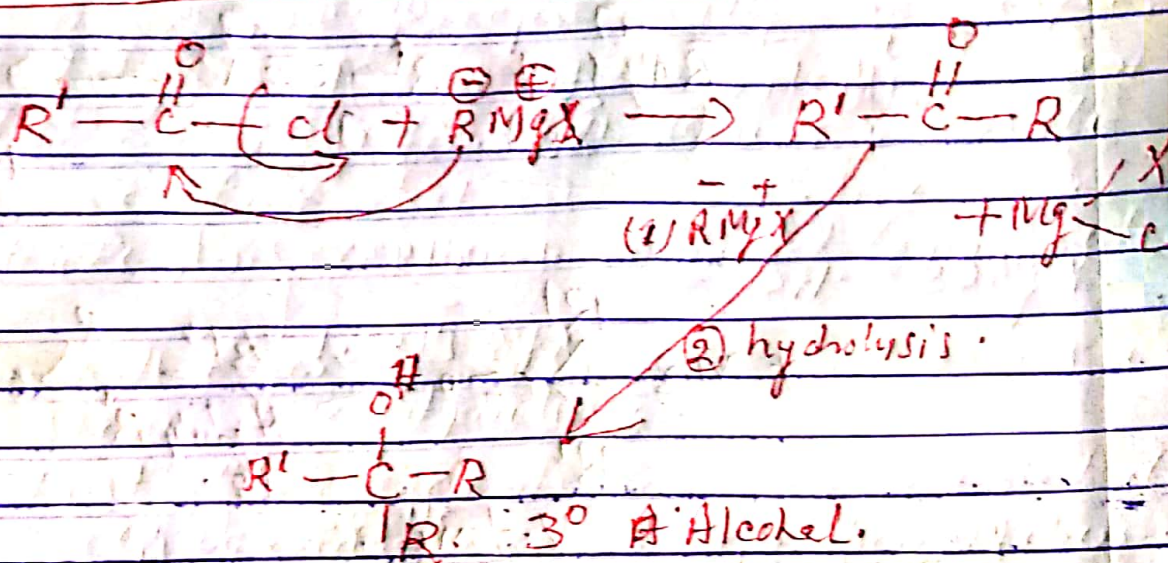
1. $\text{C}_2\text{H}_5\text{MgX}$
 2. Hydrolysis



3° Alcohol

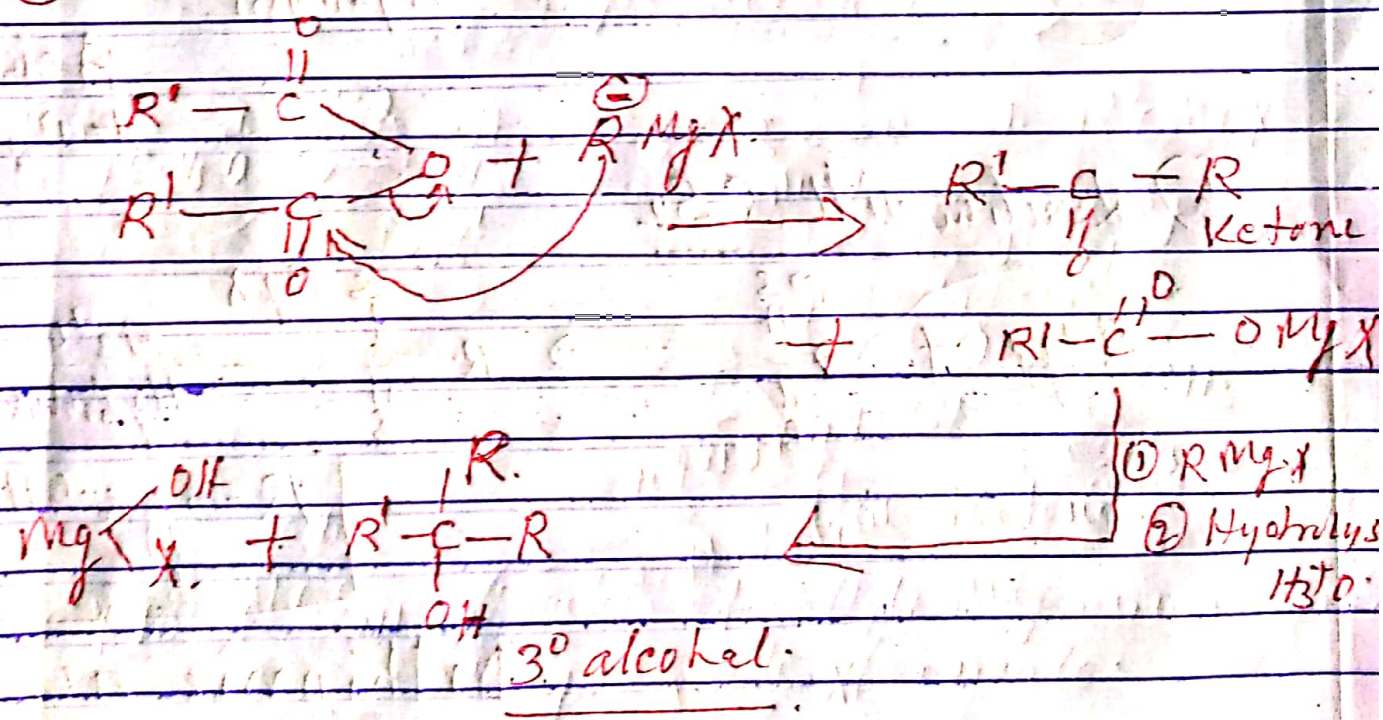
3 Methyl pentan-3-ol

② Reaction with acid chloride

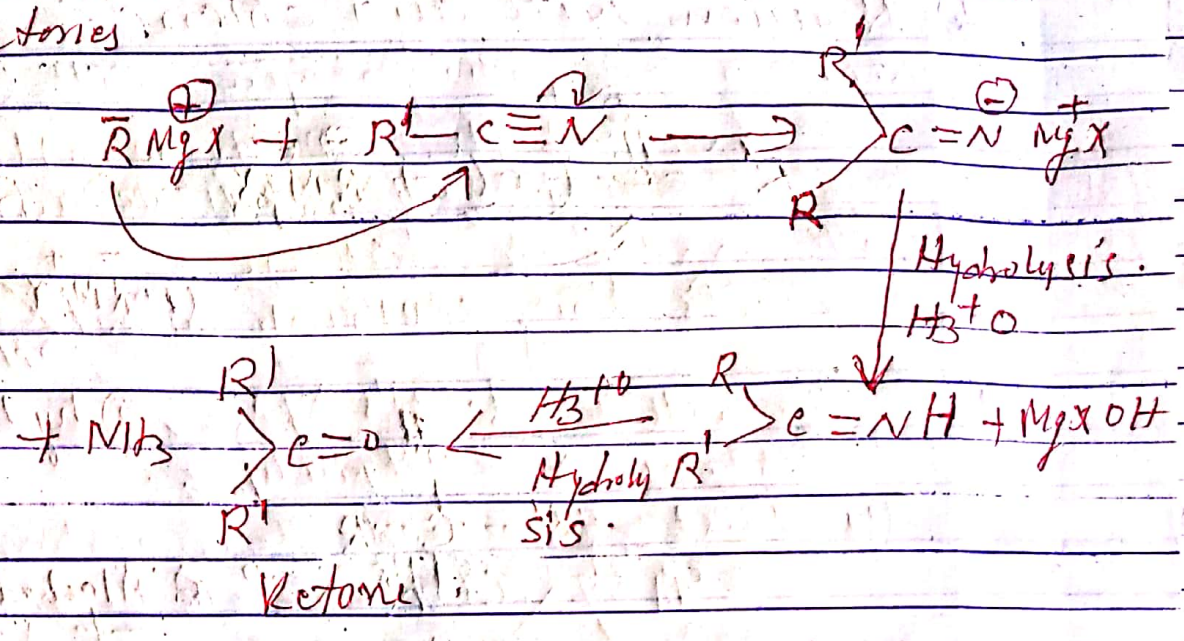


i.e. Reaction with acid chloride give 3° alcohol.

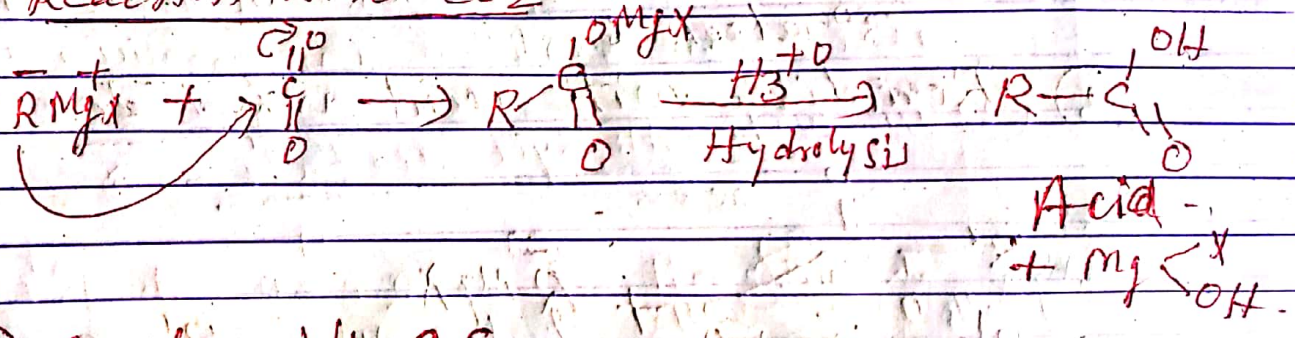
③ Reaction with acid anhydride



④ Grignard reagent reacts with nitriles to form Ketones.



⑤ Reaction with CO₂



⑥ Reaction with CS₂

