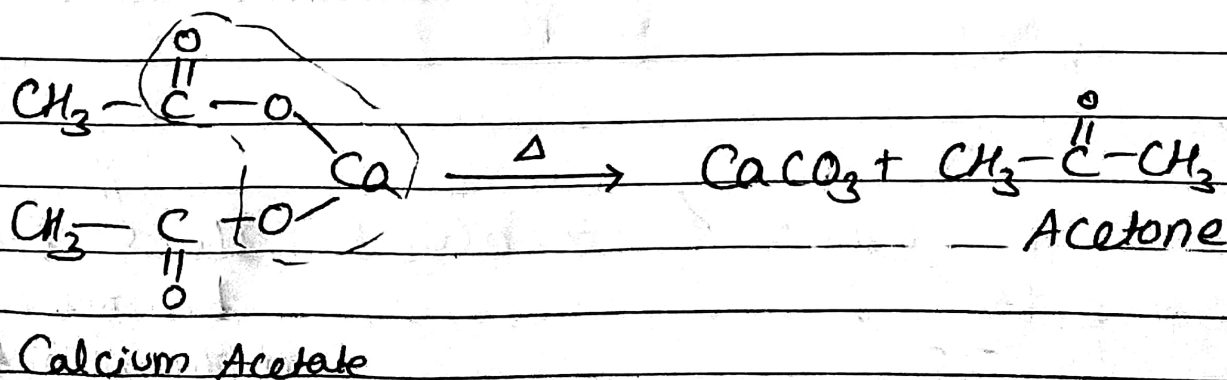
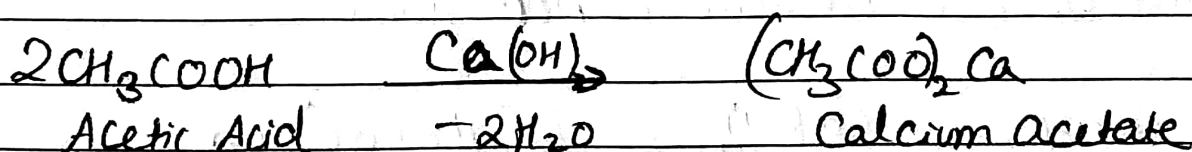
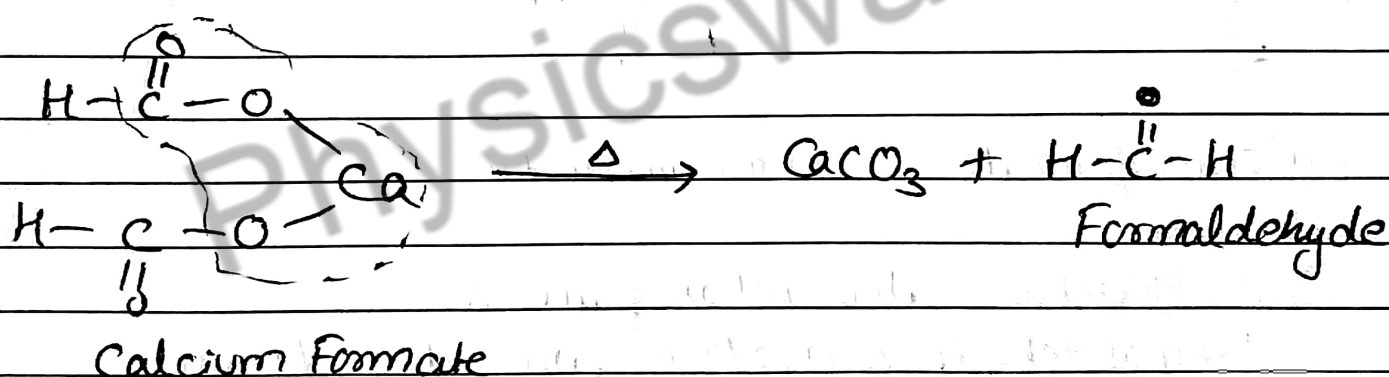
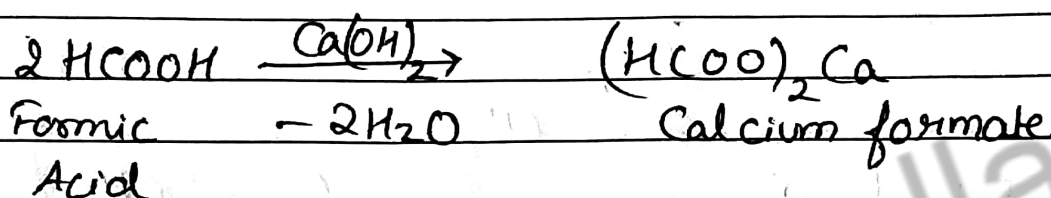


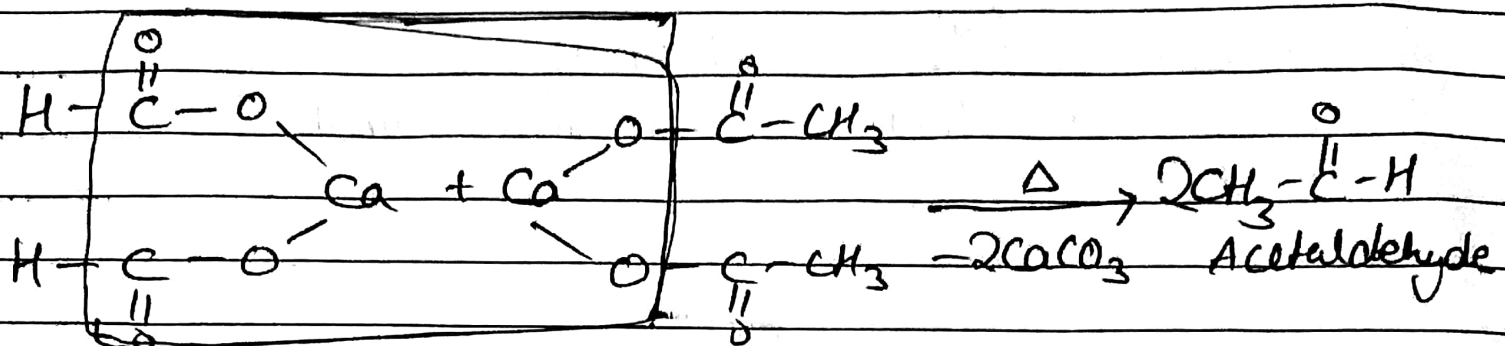
Aldehydes & Ketones - 02

Preparation of Aldehydes & Ketones

1) From Carboxylic Acids:

i) By dry distillation of Calcium Salts of Carboxylic Acids : Pyrolysis

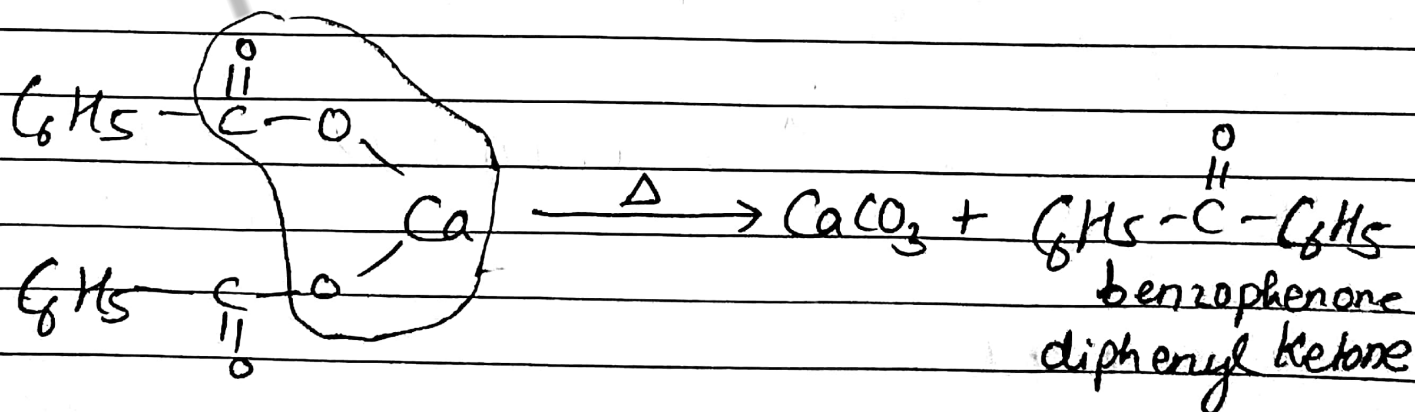
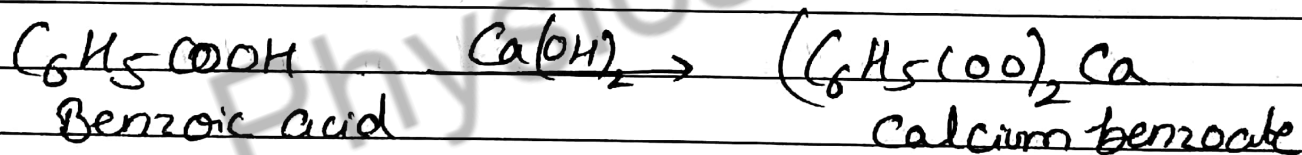




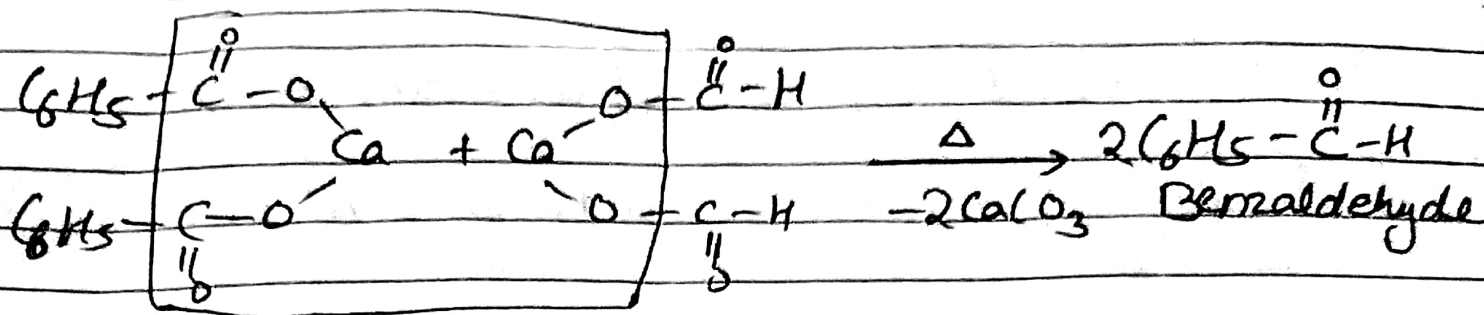
Calcium formate

Calcium acetate

Side reactions also takes place & formaldehyde & acetone are also formed.
So yield of Acetaldehyde is not good



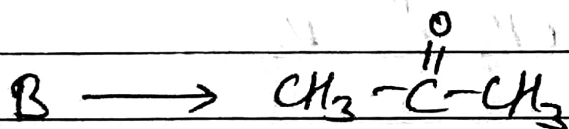
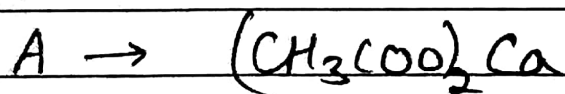
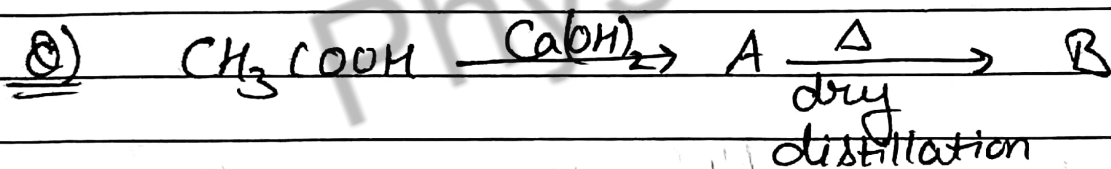
Calcium benzoate



Calcium benzoate

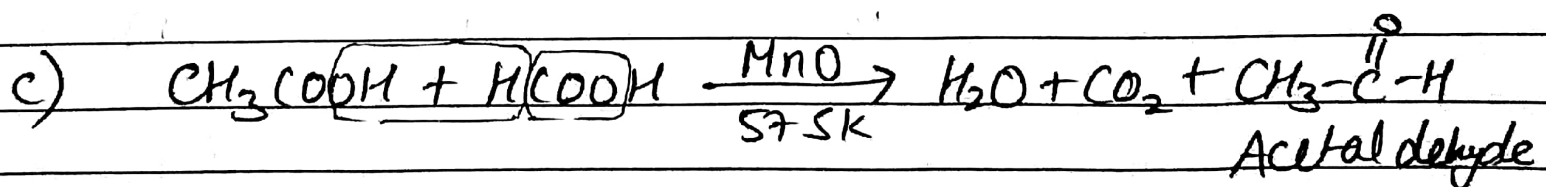
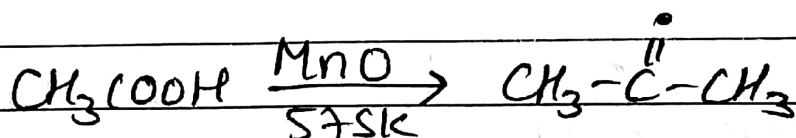
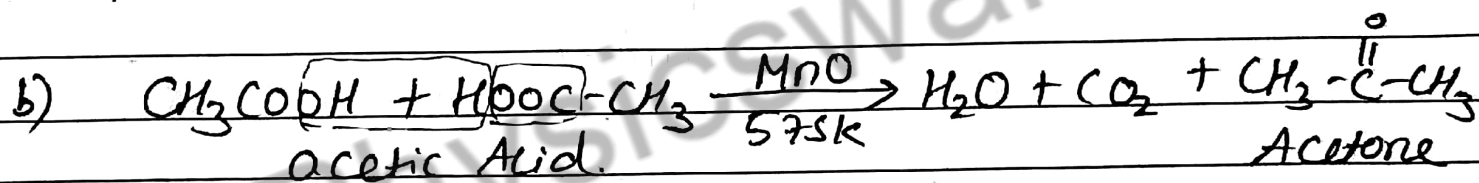
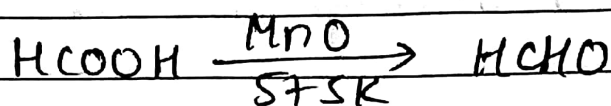
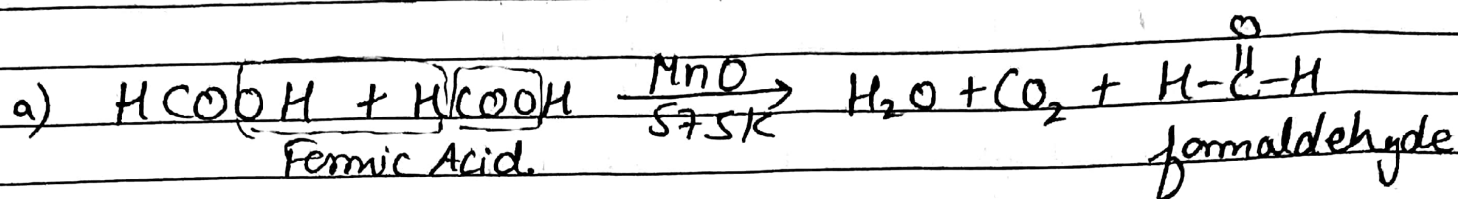
Calcium formate

side reactions also takes place & formaldehyde & benzophenone are also formed. So yield of benzaldehyde is not good.



ii) Catalytic decomposition of Carboxylic Acids:

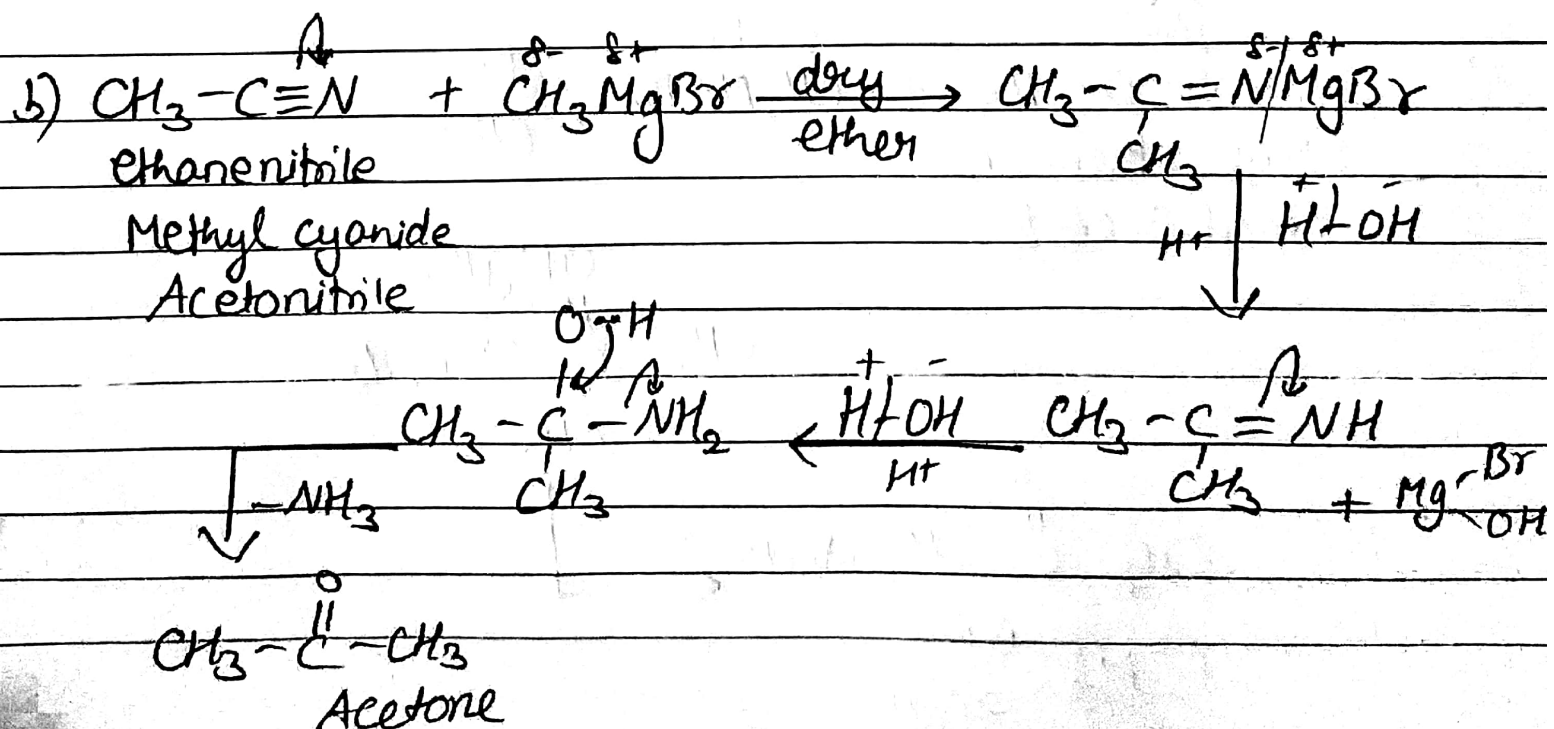
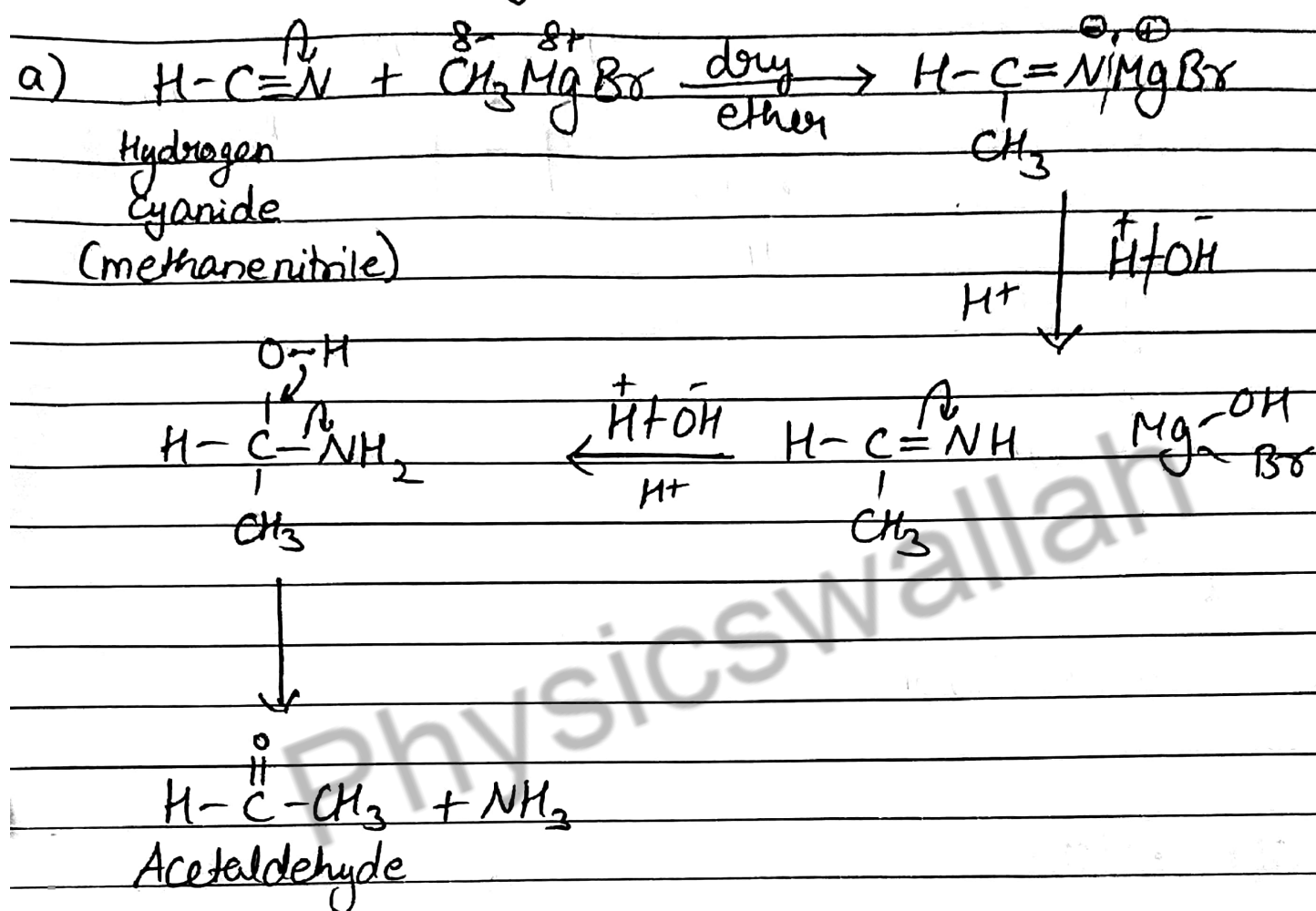
By passing vapours of Carboxylic acid over Manganous oxide at 575K

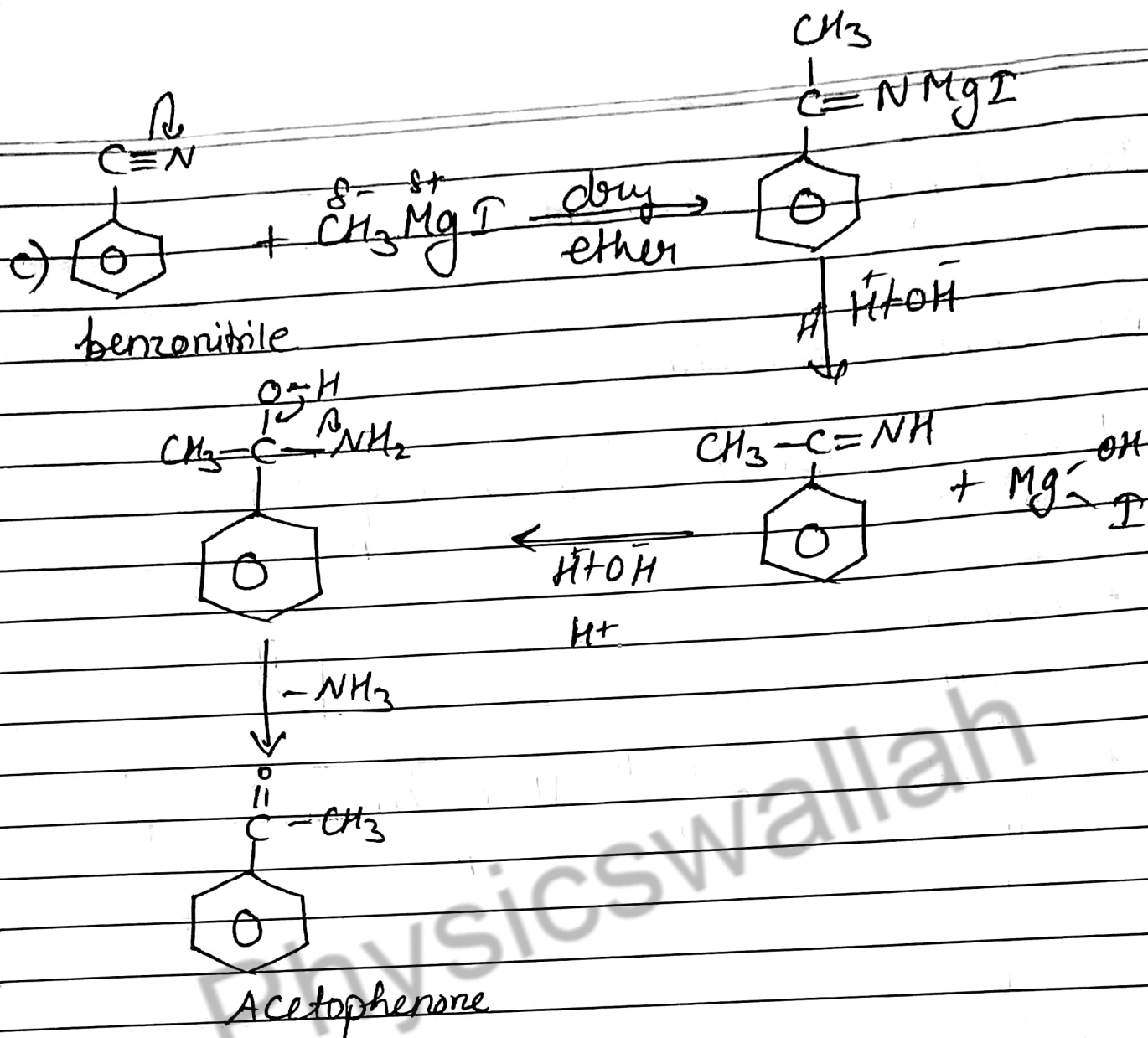


side reactions also takes place & formaldehyde & Acetone are also formed.

2) From Grignard's Reagent:

i) with nitriles (cyanides)





ii) with esters :

