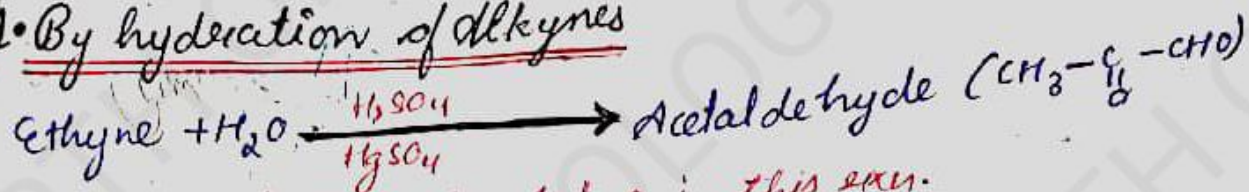


Preparation of Aldehyde

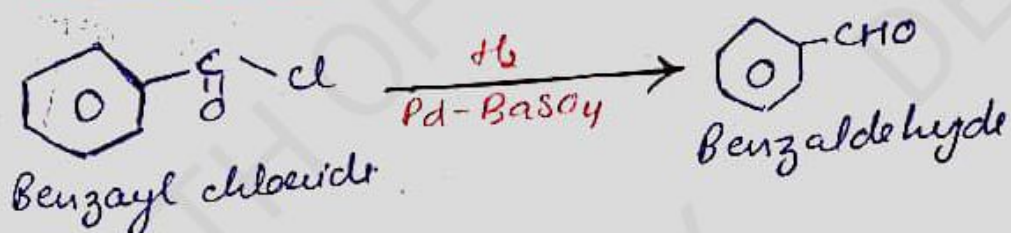
1. By hydration of alkynes



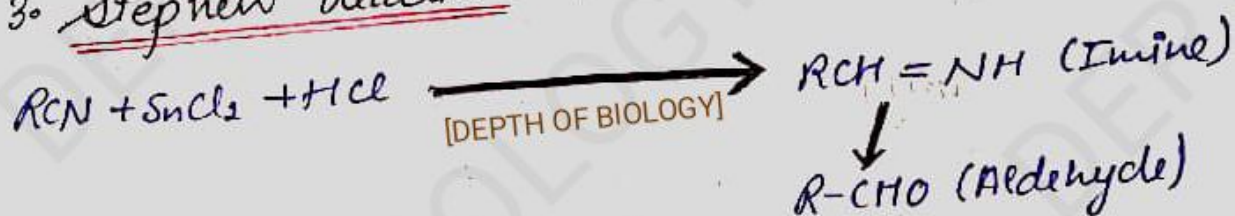
• All other alkynes gives ketone in this rxn.

[DEPTH OF BIOLOGY]

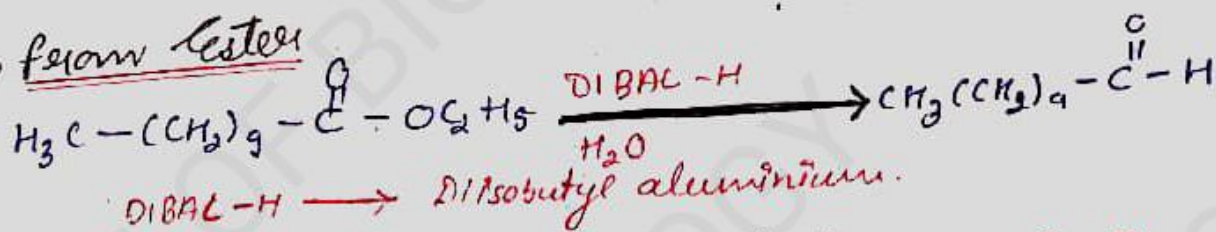
2. Rosenmund Reduction



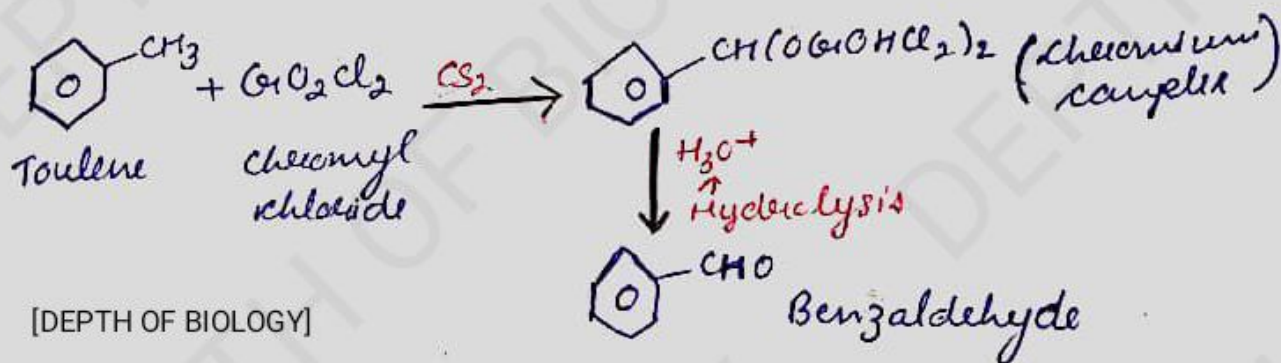
3. Stephen Reaction



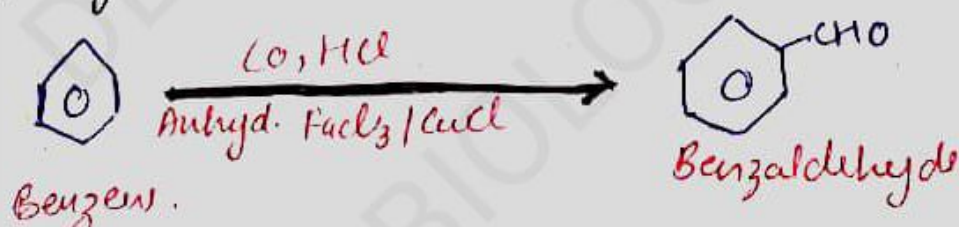
4. from ester



5. Preparation of Aromatic Aldehyde "ETARD RXN"



6. By Gattermann-Koch Rxn

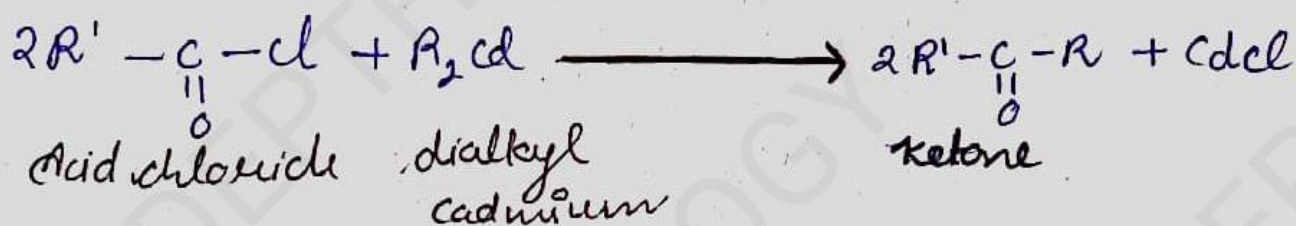


[DEPTH OF BIOLOGY]

Preparation of Ketone

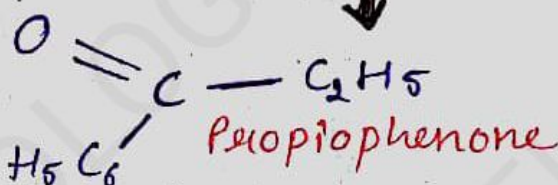
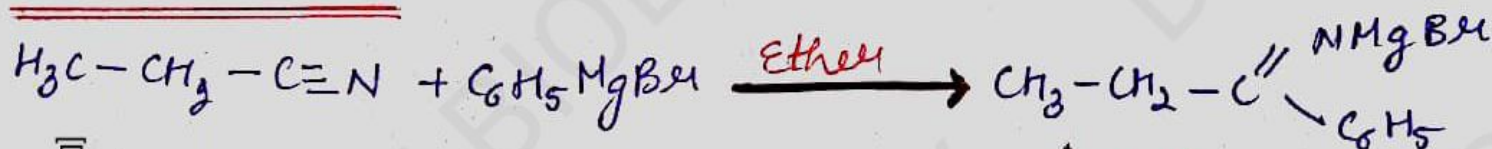
[DEPTH OF BIOLOGY]

1. From Acyl chloride.



[DEPTH OF BIOLOGY]

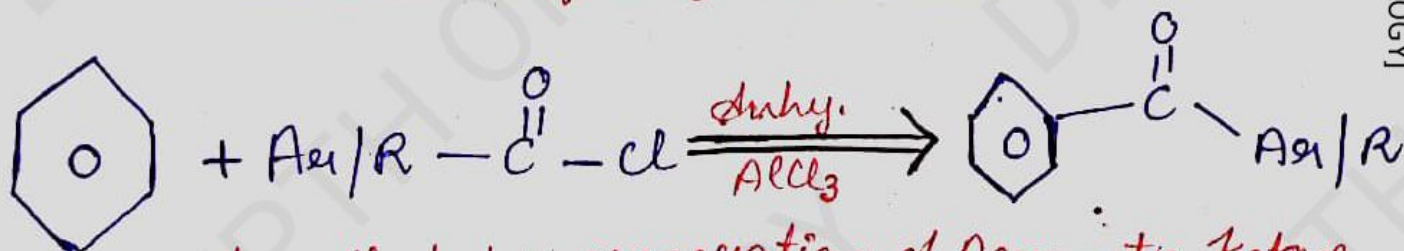
2. From Nitriles



[DEPTH OF BIOLOGY]

3. From Benzene or Substituted Benzene

"Friedel Craft Acylation Rxn"



* Good method for preparation of Aromatic Ketone.

[DEPTH OF BIOLOGY]

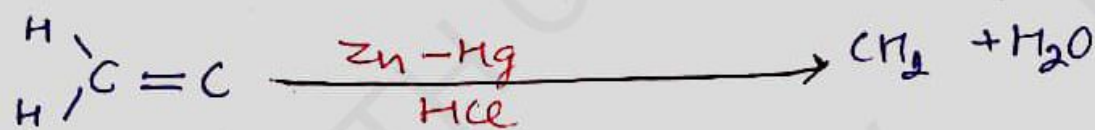
Reactions of Aldehyde and Ketone

1. Reduction to Alcohol.

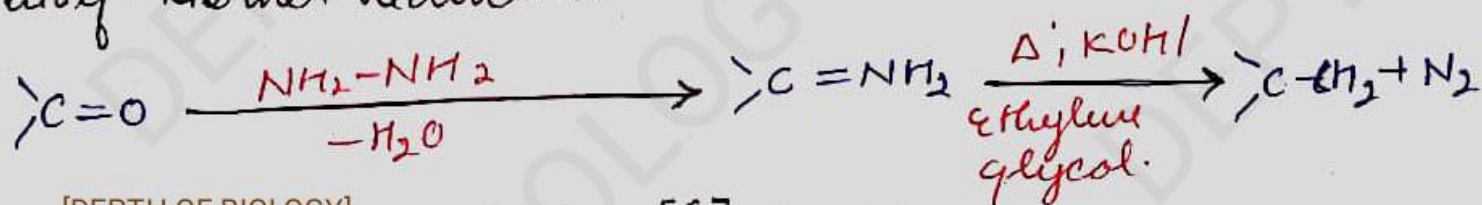


[DEPTH OF BIOLOGY]

2. Clemmensen Reduction

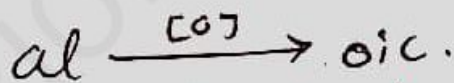


3. Wolf-Kishner Reduction



[DEPTH OF BIOLOGY]

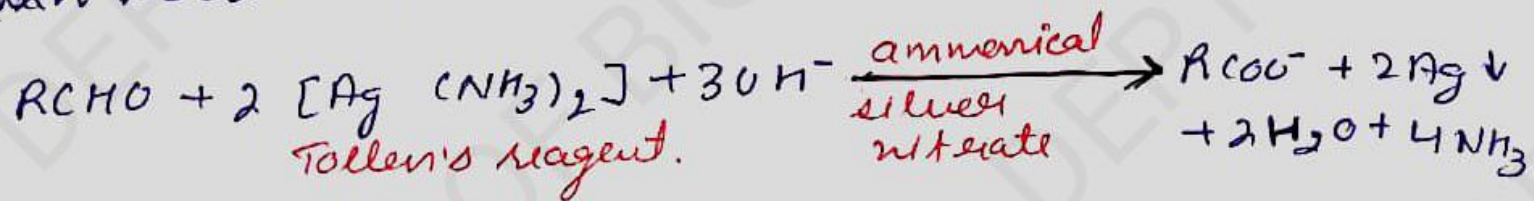
4.



Aldehydes are easily oxidised into carboxylic acid. But ketone generally oxidise into vigorous conditions i.e. strong oxidising agent and elevated temp.

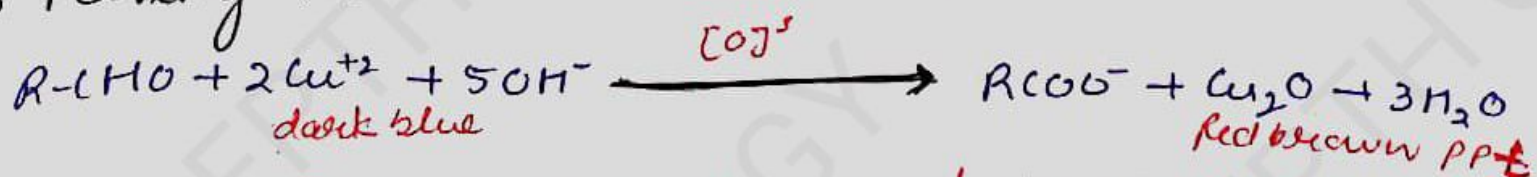
5. Tollen's Test (mild [O] gent)

Rxn occurs in Alkaline medium



[DEPTH OF BIOLOGY]

6. Fehling Test



Aromatic aldehyde does not respond in this test.