



Class 12

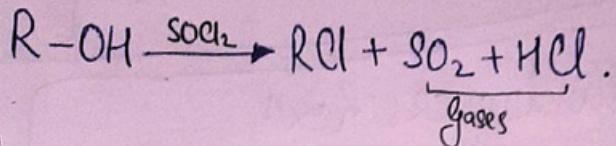
Organic chemistry Reactions



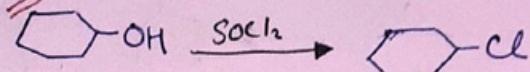
All Name Reactions

① Darzen's Reaction.

Best M.D.P.
for R-Cl



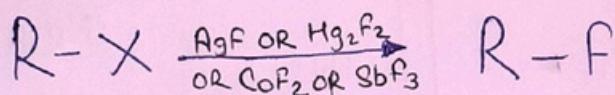
Eg.



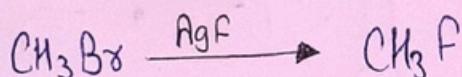
③ Swartz Reaction

[Halogen exchange]
Method

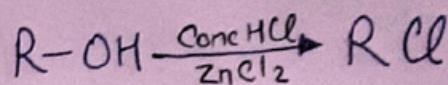
For prep
of alkyl fluorides
[2023]



Eg.



② Lucas Reagent



It is test to distinguish degree of alcohol!!

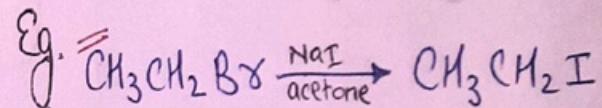
3° alcohol \rightarrow v. fast rxn,
(in secs)

2° alcohol \rightarrow 5-10 min

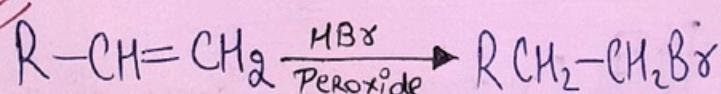
1° alcohol \rightarrow take hours
(req heat also)

④ Finkelstein Reaction

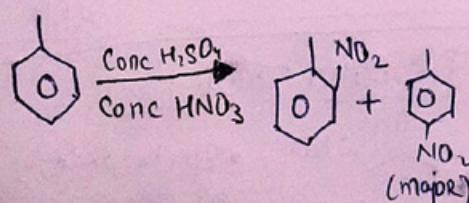
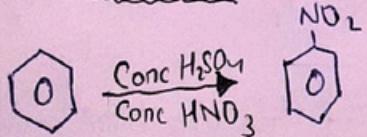
For prep
of alkyl iodide.



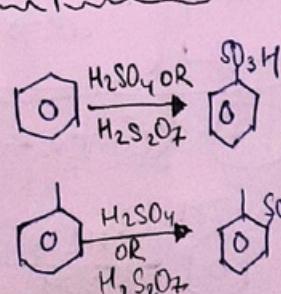
⑤ Rxn by Anti-Markownikoff's Rule



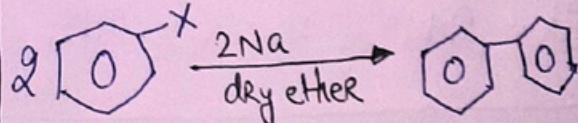
⑦ Nitration



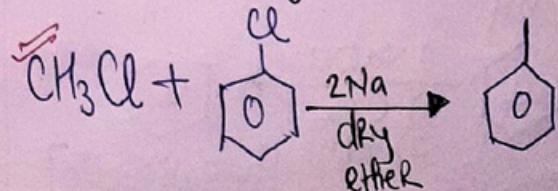
Sulphonation



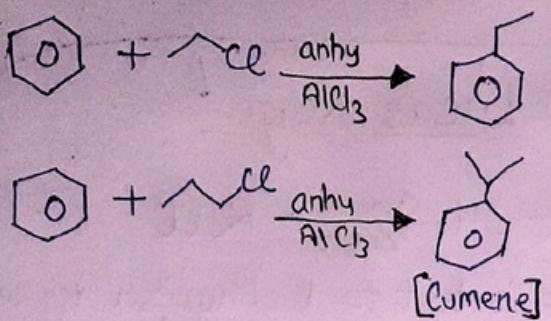
Fitting Reaction



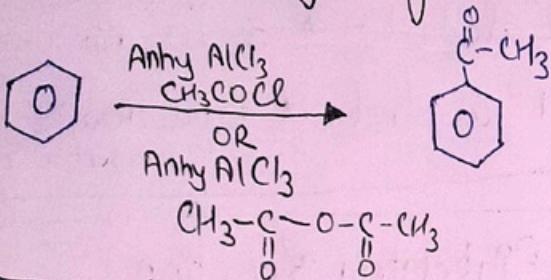
Wurtz-Fitting Reaction



⑧ Friedel-Crafts Alkylation

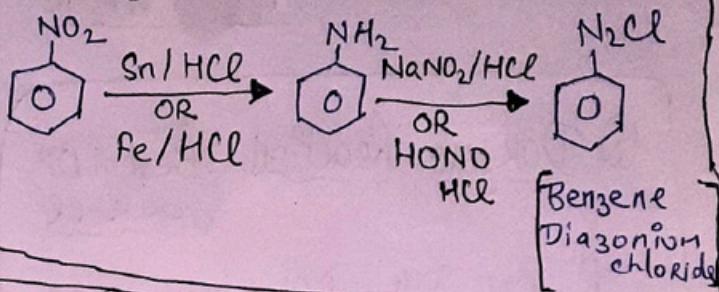


⑨ Friedel-Crafts Acylation

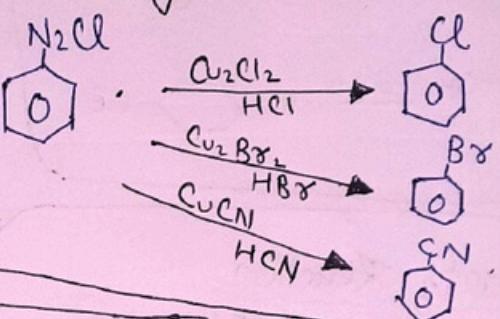


⑩ Diazotisation Rxn

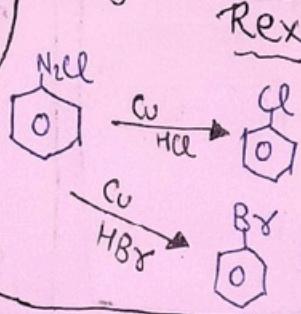
⑩ Diazotisation Rxn



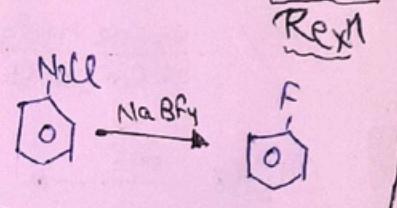
⑪ Sandmeyer's Rxn



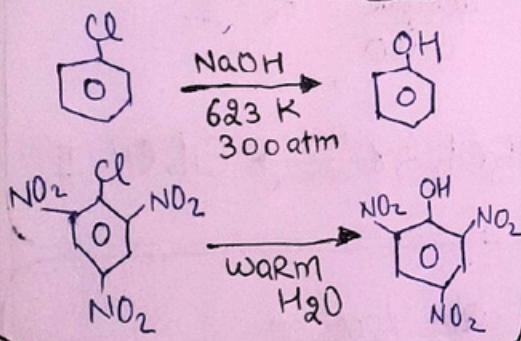
⑫ Gattermann Rxn



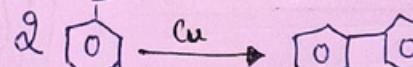
⑬ Balz-Schiemann's Rxn



⑭ Davis' Process

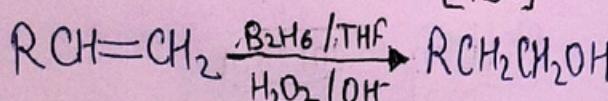


⑮ Ullmann's Rxn



⑯ Hydroboration-Oxidation

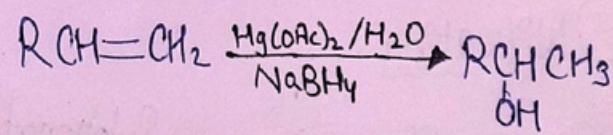
[HBO]



Trick \Rightarrow Addⁿ of H₂O via Antimarkovnikov's Rule

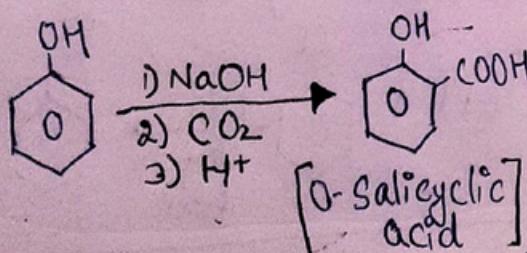
⑰ Oxymereuration-Demercuration

[COMDM]

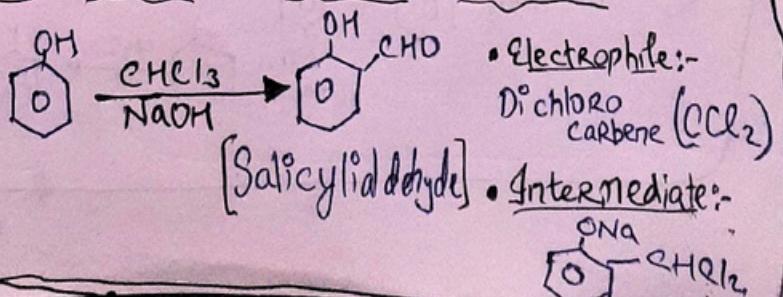


Trick \Rightarrow Addⁿ of H₂O via Markovnikov's Rule

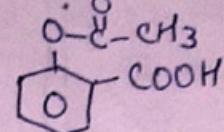
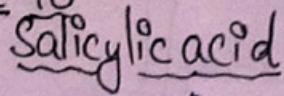
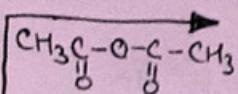
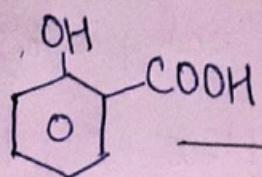
⑱ Kolbe's Reaction



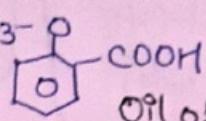
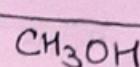
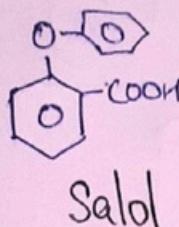
⑲ Reimer-Tiemann Reaction



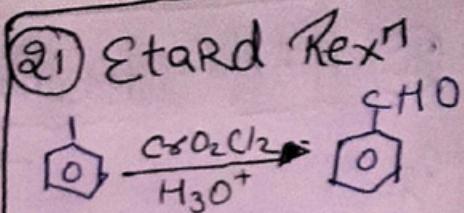
(20) Simple Rxn Related to Salicylic acid



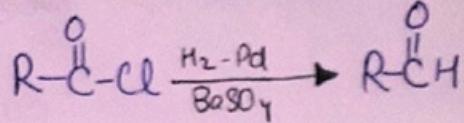
Aspirine or
O-acetoxy
Benzic acid



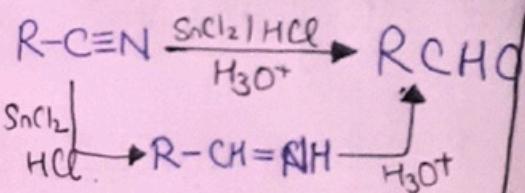
Oil of
winter
green



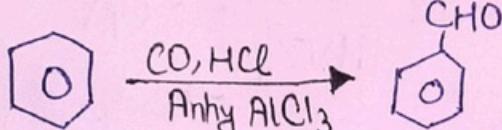
(22) Rosenmund's Rxn



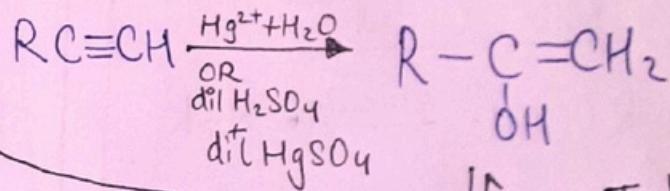
(23) Stephen's Reduction



(24) Kettermann Koch Synthesis

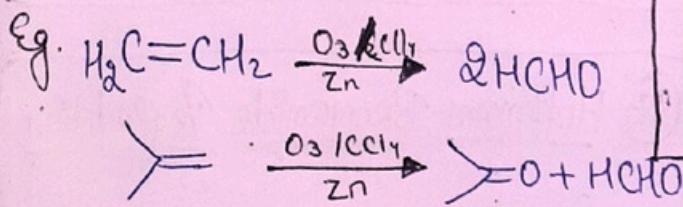


(25) Kucherov Reaction

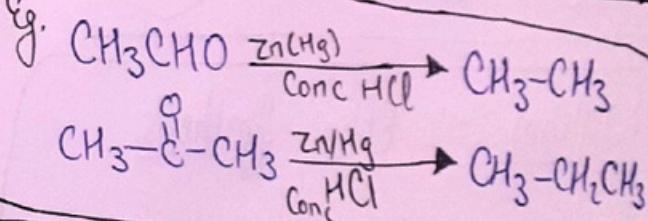


Tauto
merism

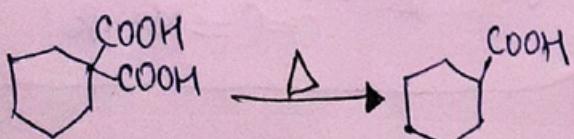
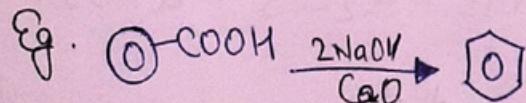
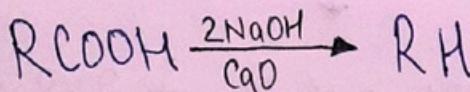
(26) Reductive Ozonolysis



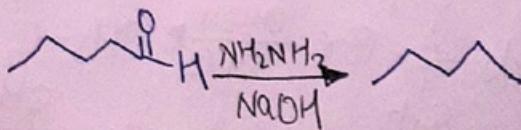
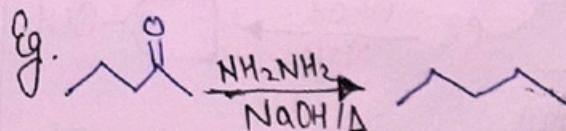
(27) Clemmerson's Reduction



(28) Decarboxylation Reaction

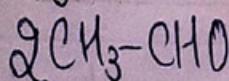


(29) Wolff Kishner Redn

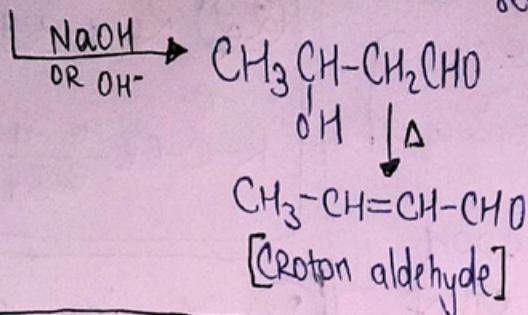


30 Aldol Condensation

Eg:-

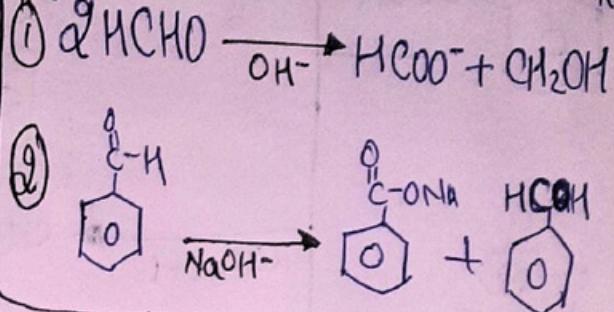


→ Aldehydes & Ketones having atleast 1 α -H undergoes this rxn

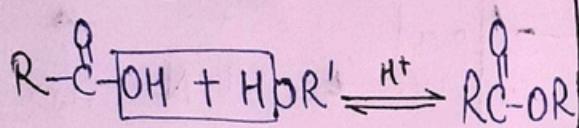


31 Cannizaro Rxn

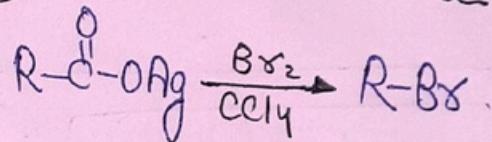
→ Aldehydes / Ketone having NO α -H undergoes this Rxn



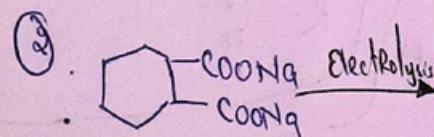
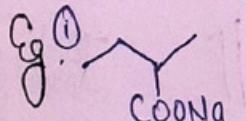
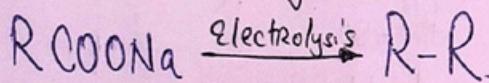
32 Esterification Rxn



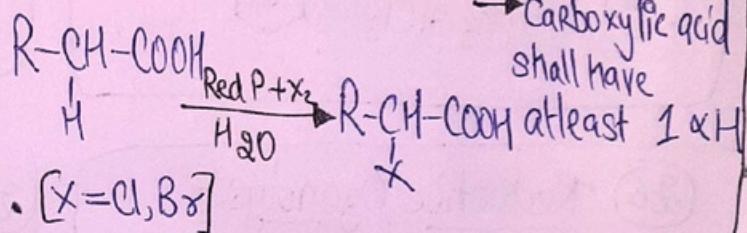
33 Borodiene Kondiecker Rxn



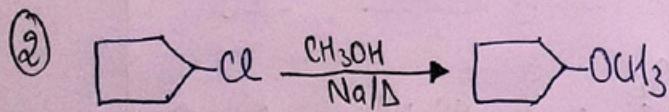
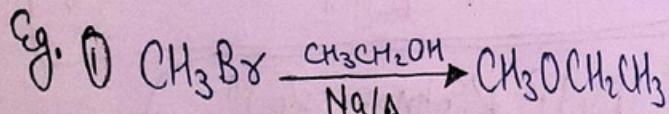
34 Kolbe's Electrolysis



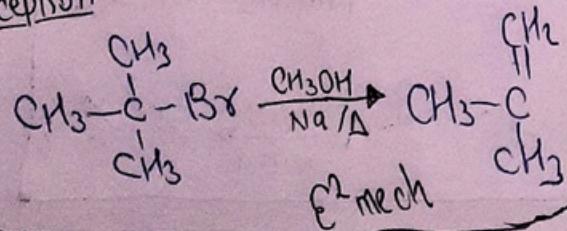
35 Hell-Volhard-Zelinsky Rxn [HVZ]



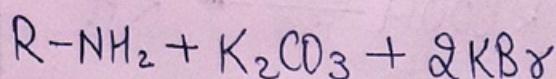
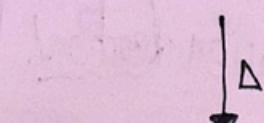
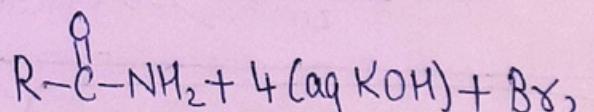
36 Williamson's Ether Synthesis



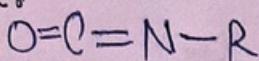
Exception



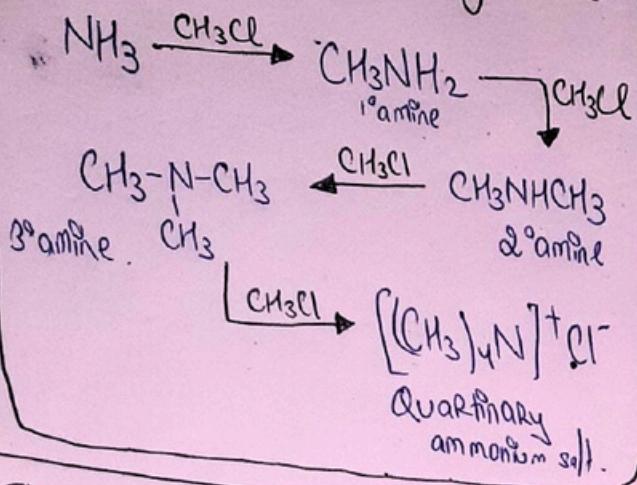
37 Hoffmann Bromamide Degradation



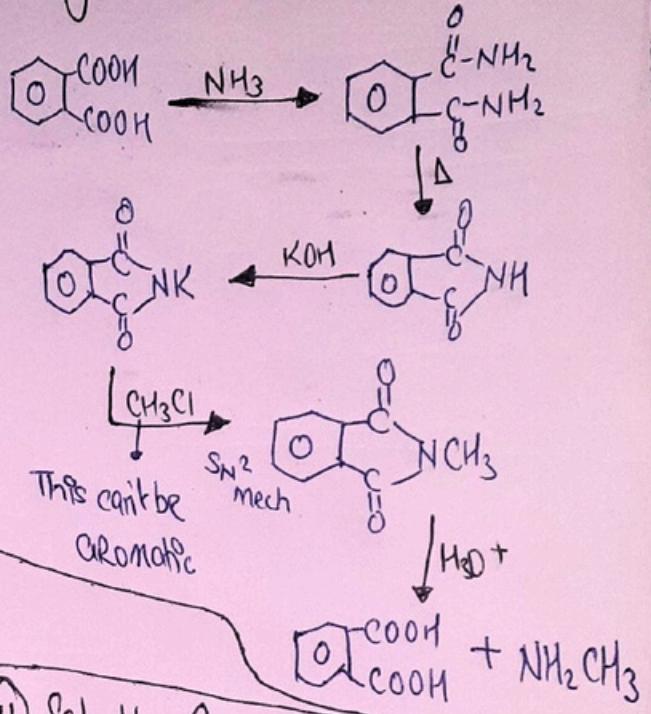
Intermediate:-



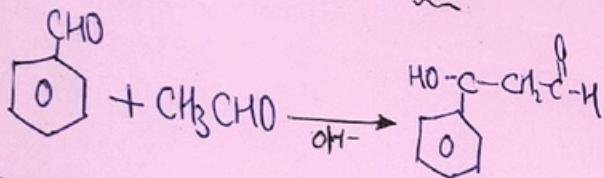
③⁸ Hoffmann's Ammonolysis Rexn



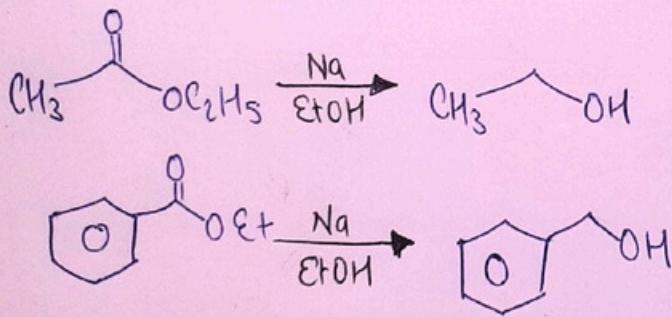
③⁹ Gabriel Phthalimide Rexn



④⁰ Clasien-Schmidt Rexn



④¹ Bouveault-Blanc Reduction



④¹ Schotten-Baumann Rexn

