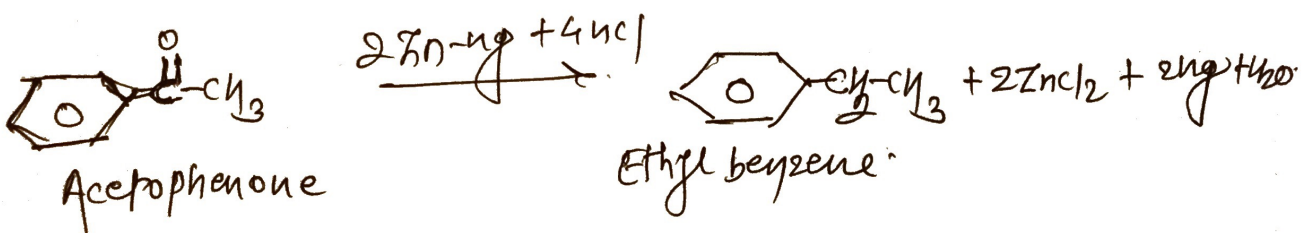
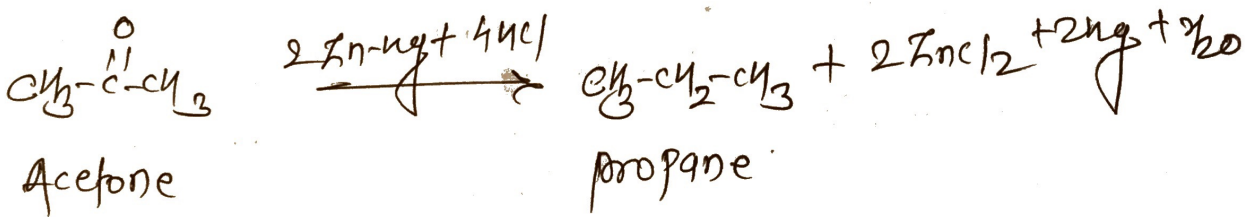
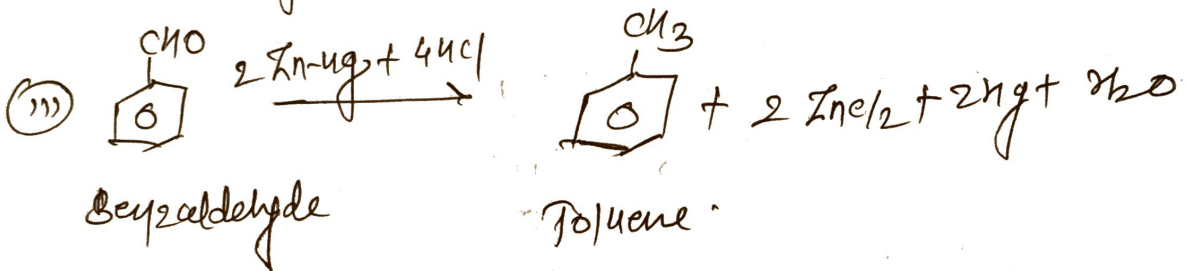
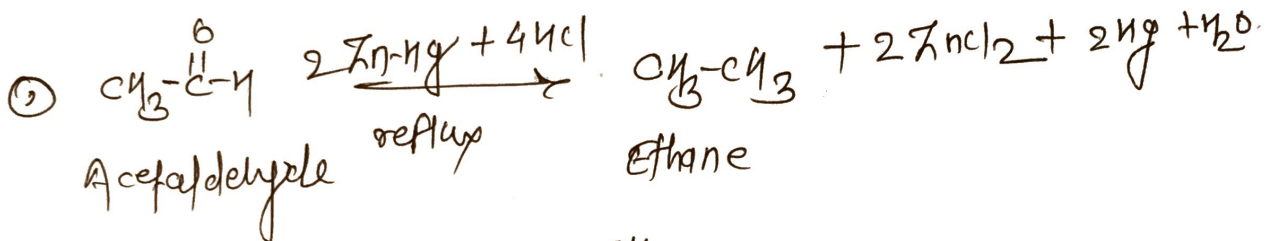
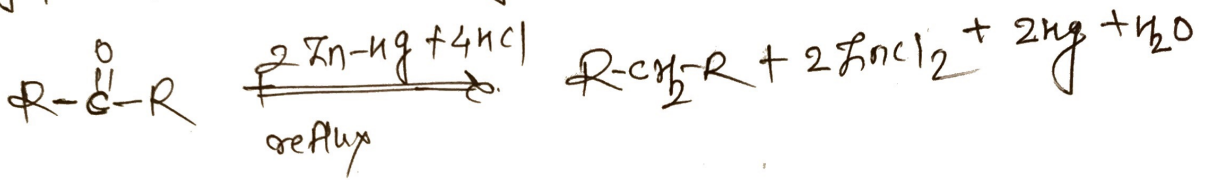


Reduction of carbonyl compound

(i) Clemmensen reduction

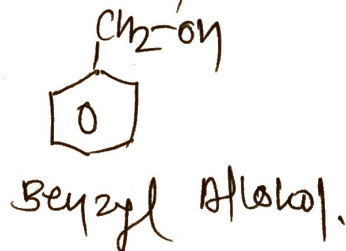
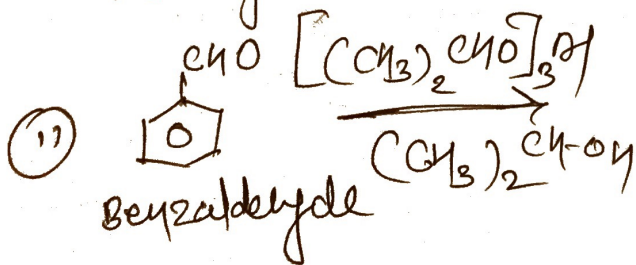
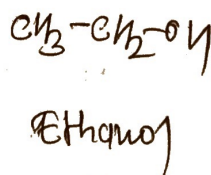
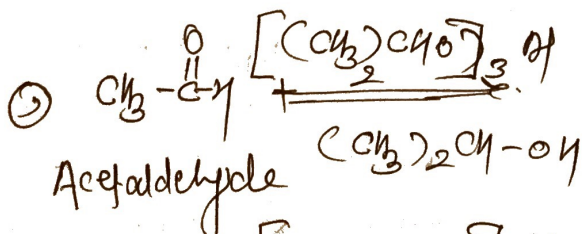
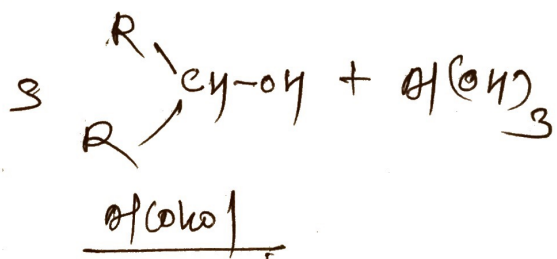
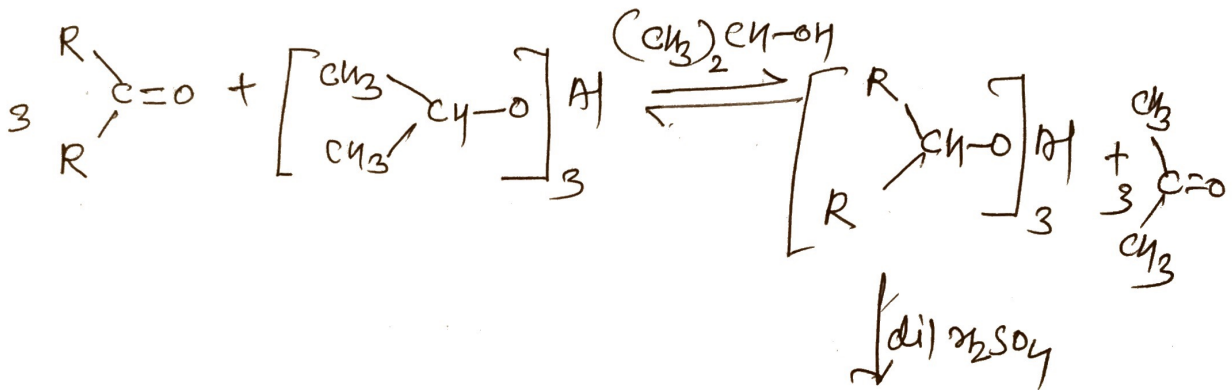
Aldehyde and ketones fluxed with amalgamated zinc and hydrochloric acid. Carbonyl group get reduced to methylene group.

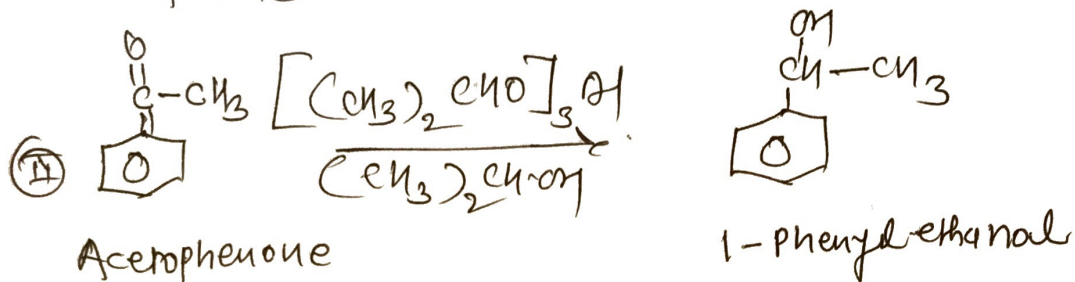
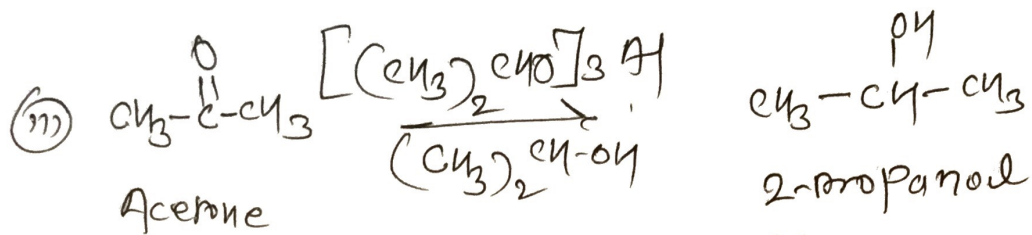


⑤ Meerwein-Ponndorf-Verley (MPV) reduction.

Aldehyde and ketones when treated with aluminum isopropoxide in isopropanol, carbonyl group get reduced to alcoholic group to give corresponding alcohol.

During the reaction aluminum isopropoxide is oxidized to acetone.





(4) Reduction by using $[\text{LiAlH}_4]$

Aldehyde and ketones reacted with lithium aluminum hydride in ether, carbonyl group get reduced to alcoholic group to give corresponding alcohols.

