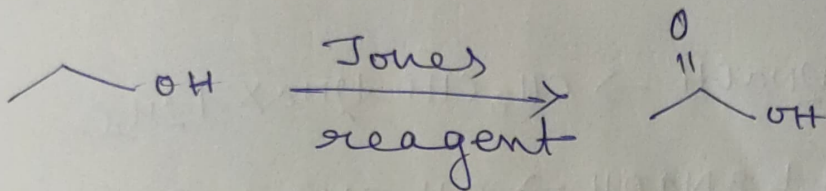
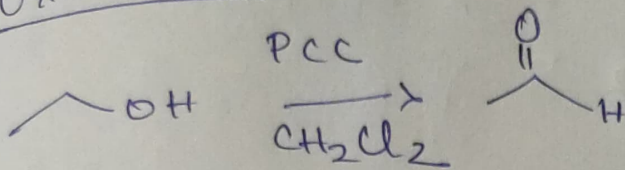
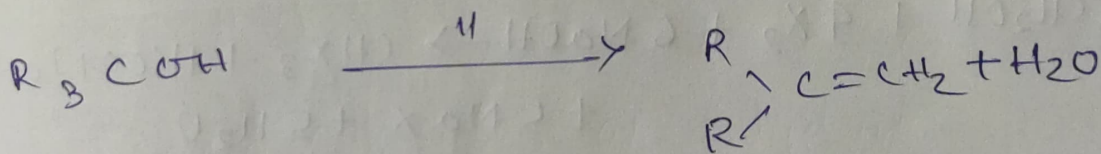
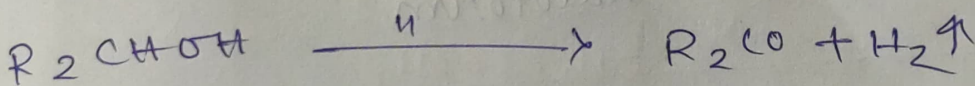
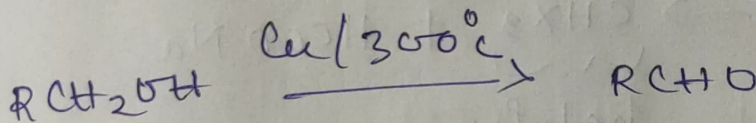


Alcohols

Oxidation :

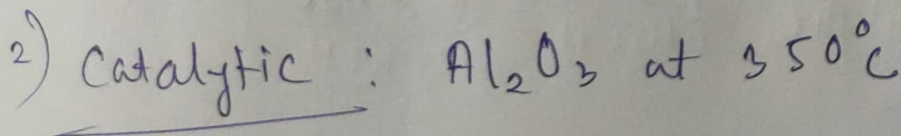
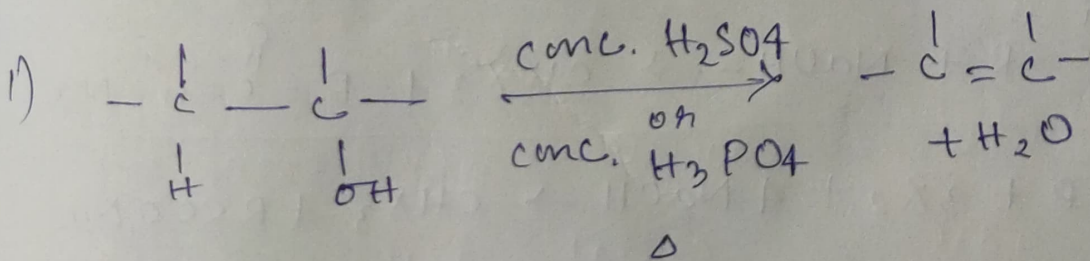


Dehydrogenation : ($-\text{H}_2$)

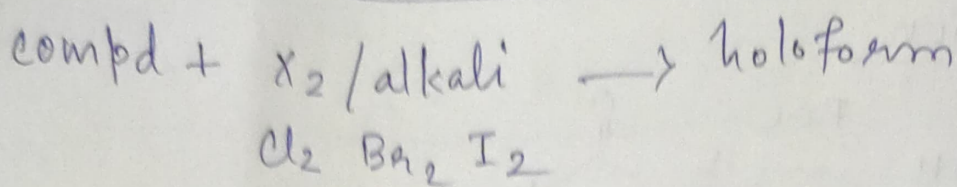


Dehydration of alcohols : ($-\text{H}_2\text{O}$)

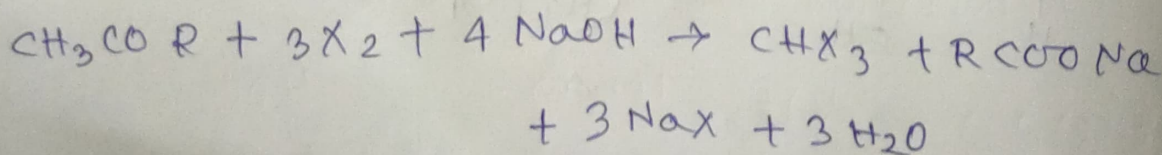
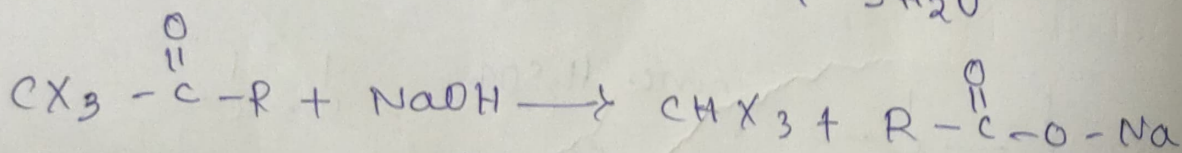
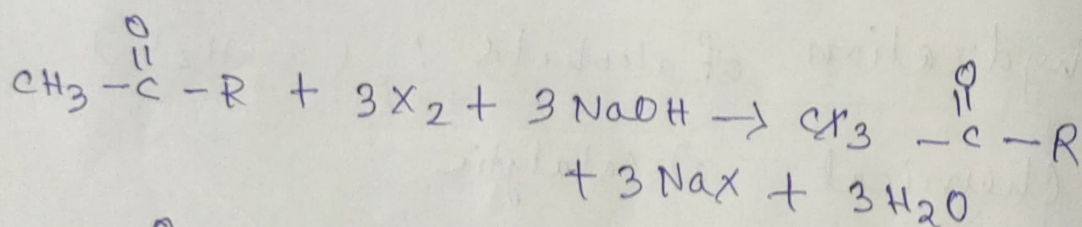
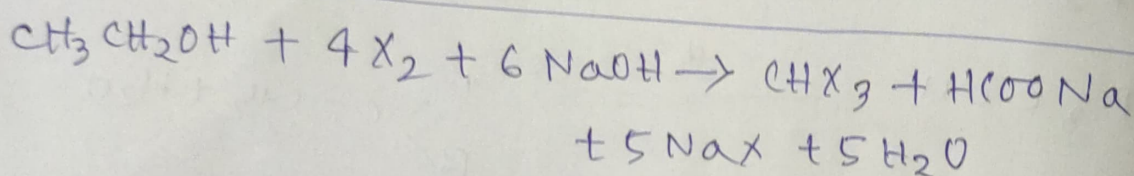
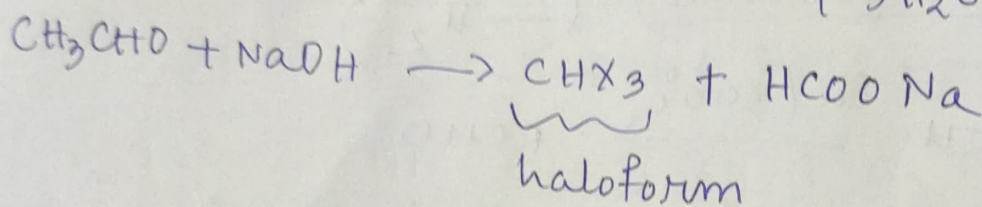
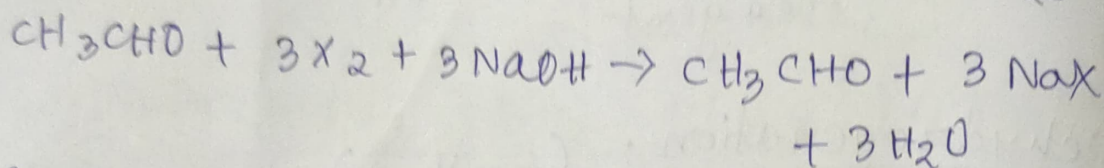
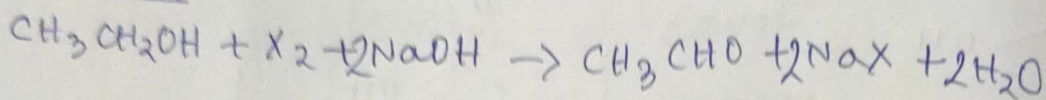
- 1) Chemical 2) Catalytic



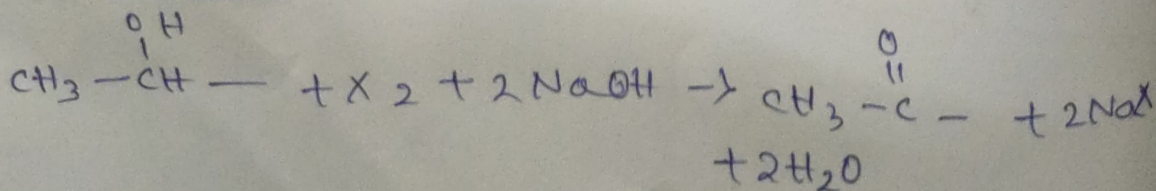
HALOFORM REACTION



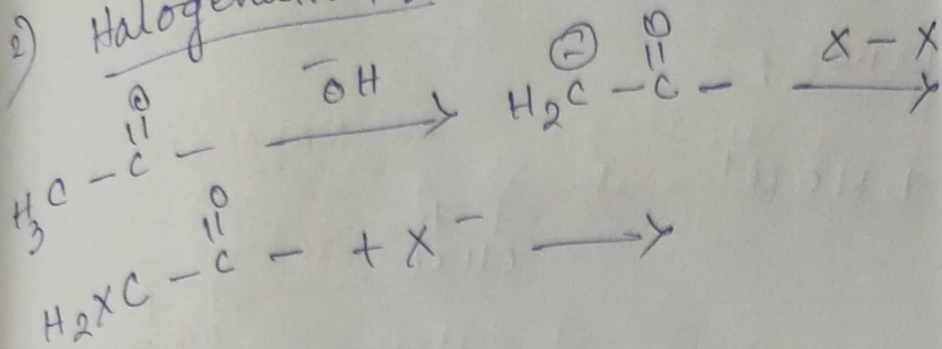
Ethanol:



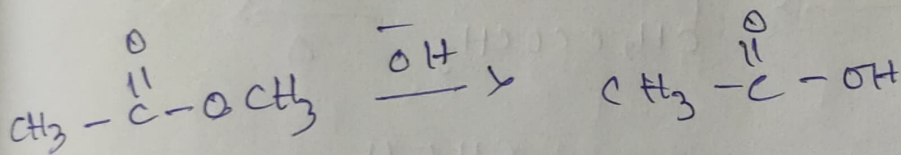
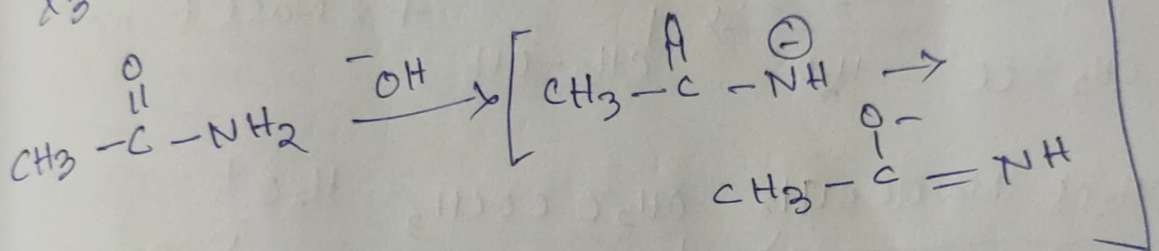
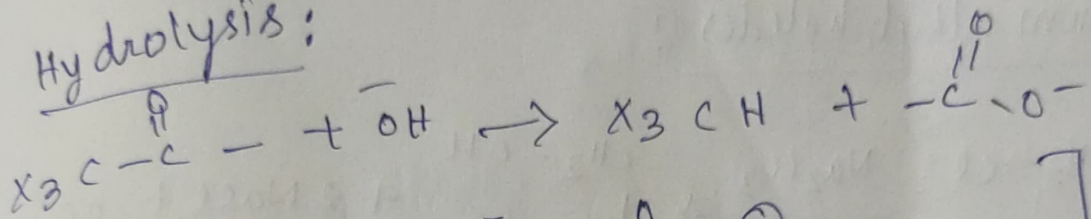
D) Oxidation :



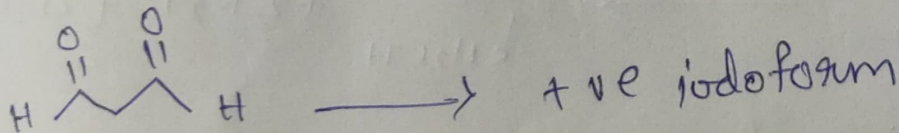
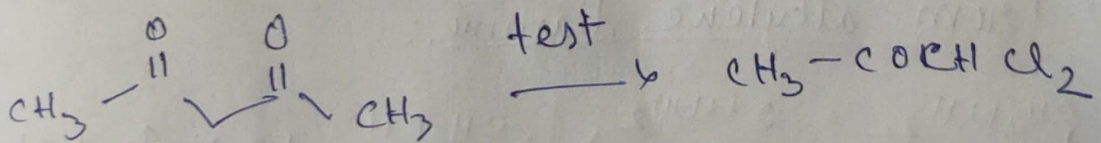
2) Halogenation:



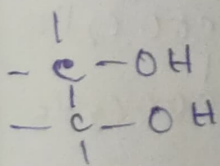
3) Hydrolysis:



Active methylene:

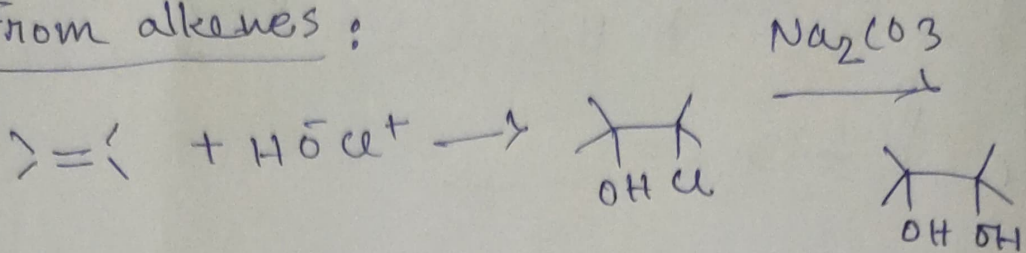


GLYCOLS

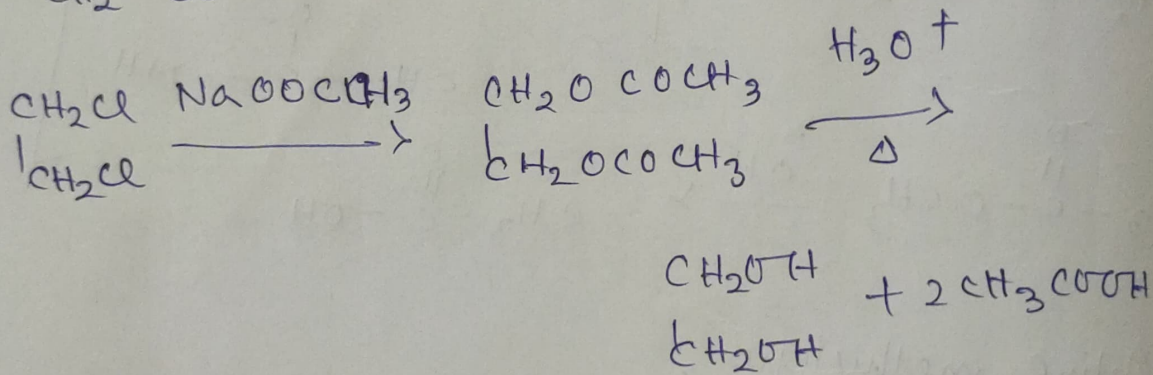
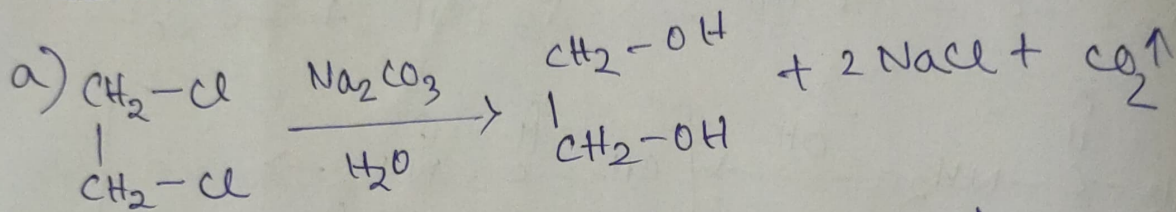


Synthesis

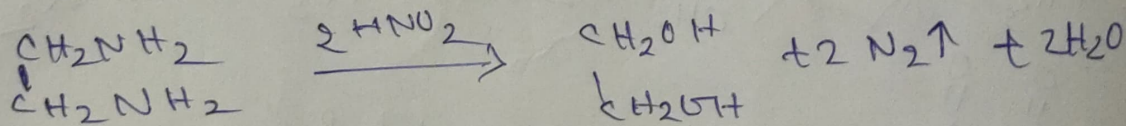
i) From alkenes:



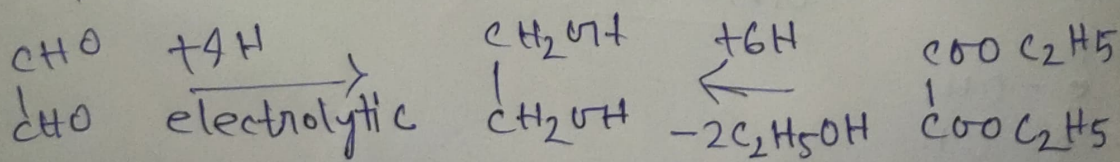
ii) From alkyl halides:



iii) From alkylene diamine:

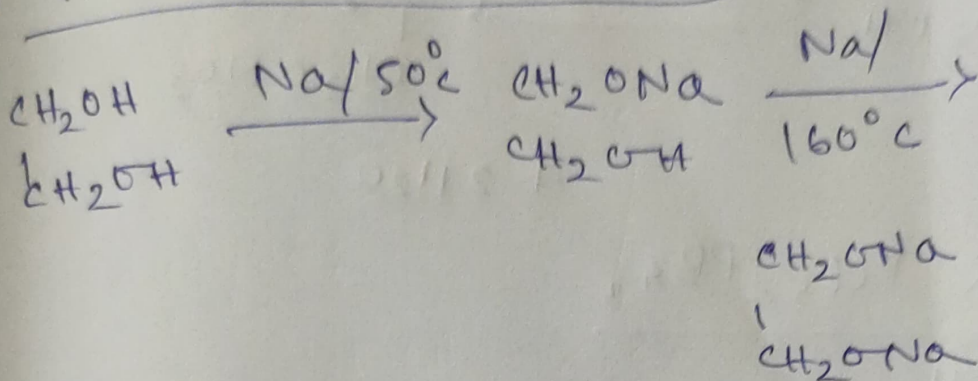


iv) Reduction of various carbonyl compounds:

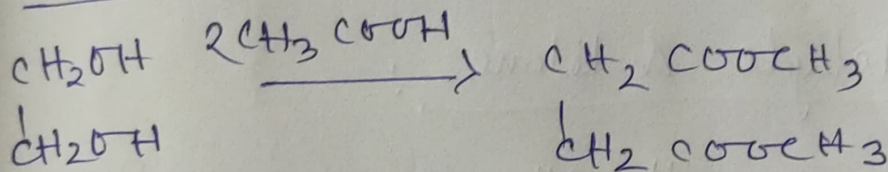


Reactions of Glycols

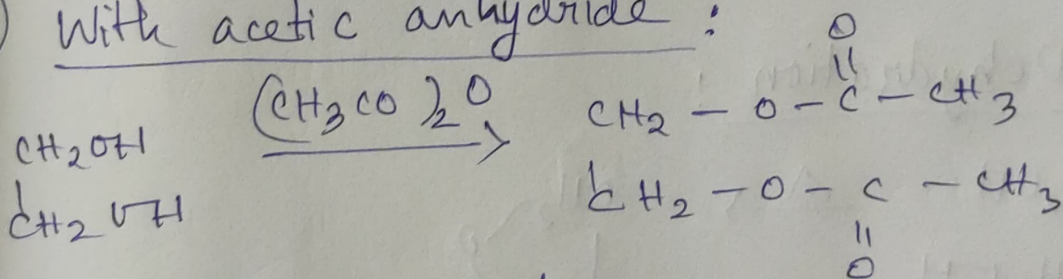
1) Action with Na metal :



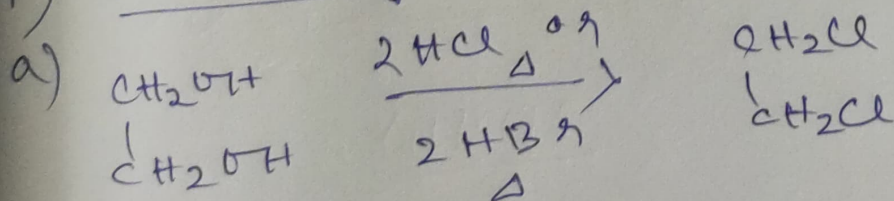
2) With acids :



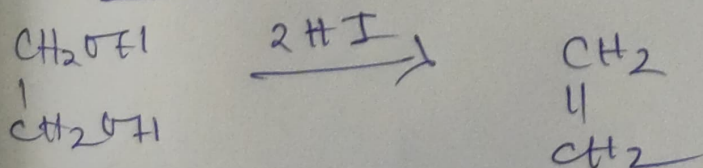
3) With acetic anhydride :



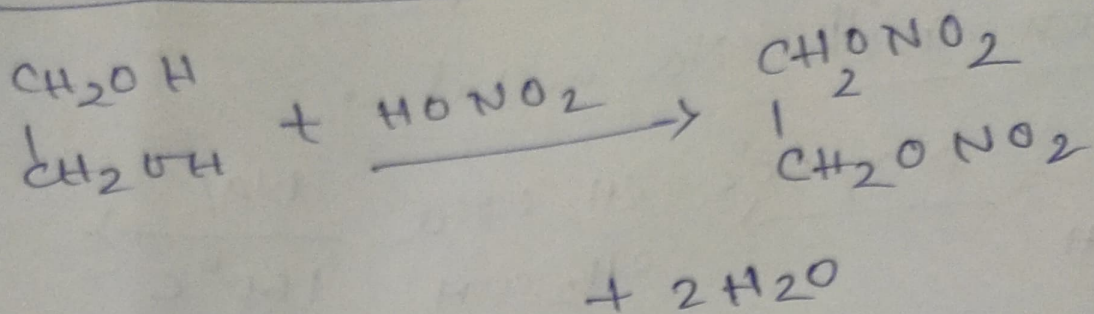
4) With halogen acids :



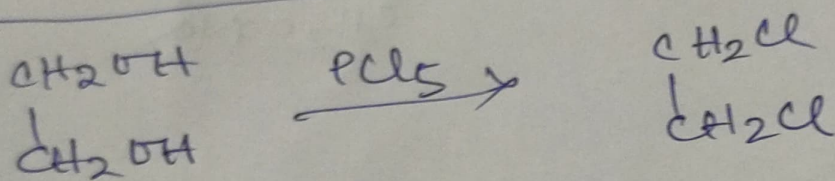
b) With HI / PI₃ :



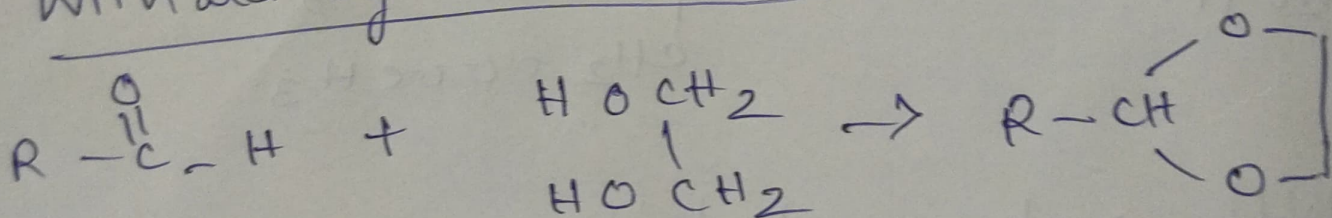
5) With nitric acid :



6) With PCl₅, PBr₃



7) With aldehyde & ketone :



8) Dehydration :

