

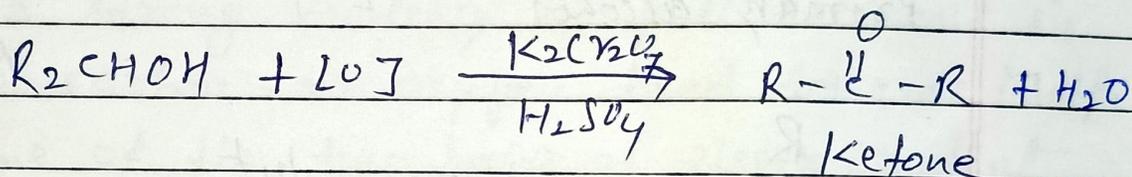
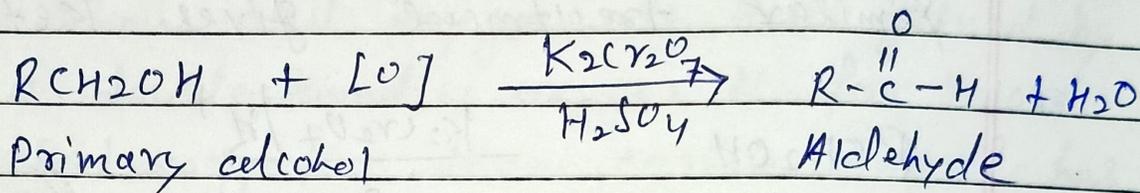
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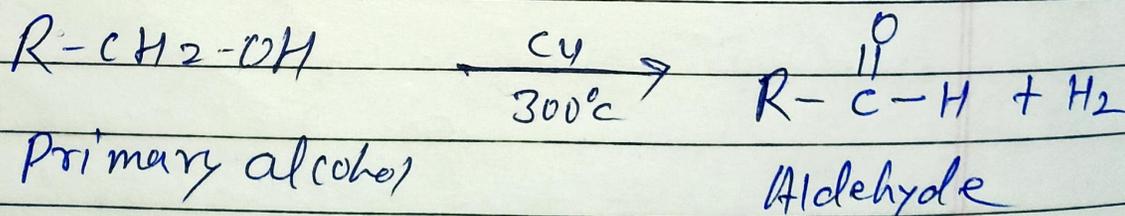
## Preparation of Aldehydes and Ketones / -

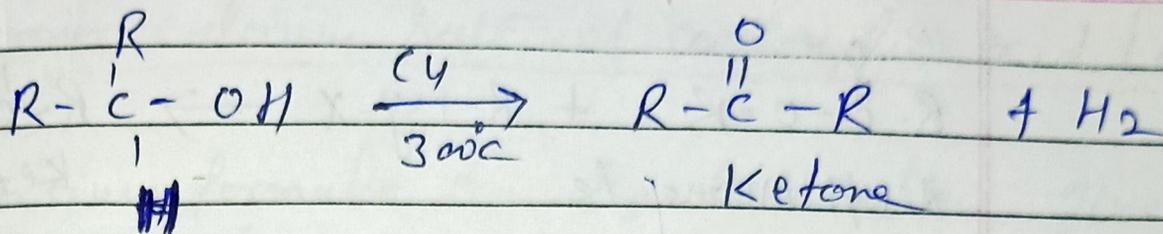
1. By oxidation of Alcohols / - When primary alcohol is oxidised with  $K_2Cr_2O_7$  in presence of  $H_2SO_4$  to give aldehyde while secondary alcohol on similar treatment gives ketone.



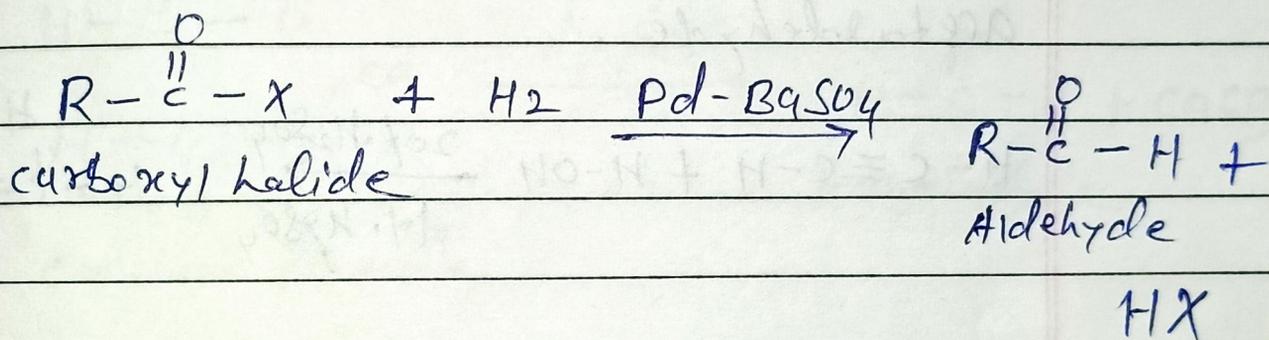
2. By catalytic dehydrogenation of Alcohols / -

When vapours of primary alcohol are passed over reduced copper at  $300^\circ C$  to give aldehyde while secondary alcohol on similar treatment gives ketone.





3. From carboxyl halide :- When carboxyl halide reacts with hydrogen in presence of Pd and BaSO<sub>4</sub> to give aldehyde. This reaction is known as Rosenmund reduction reaction.



4. From Grignard's reagent :- When alkyl formate reacts with Grignard's reagent to give aldehyde and alkyl alkanoate on similar treatment gives ketone.

