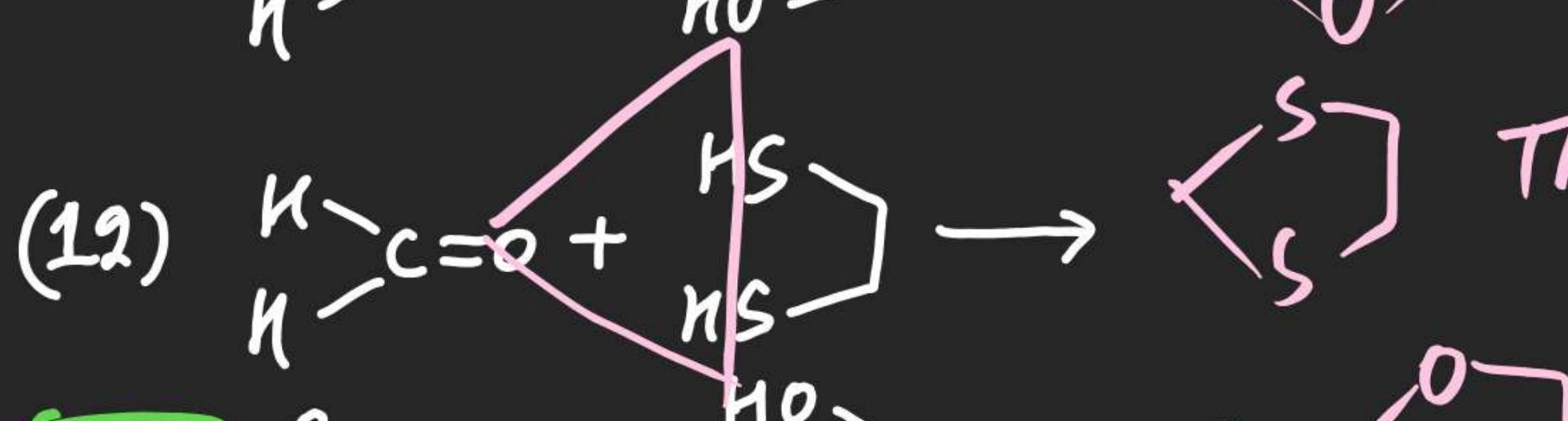
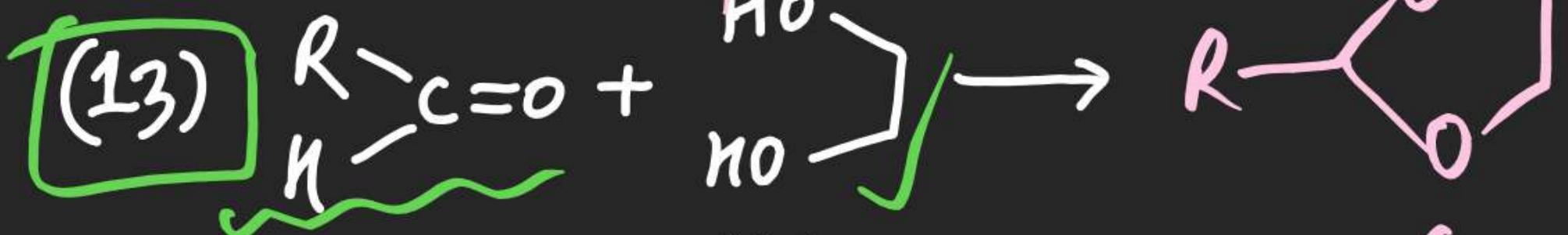


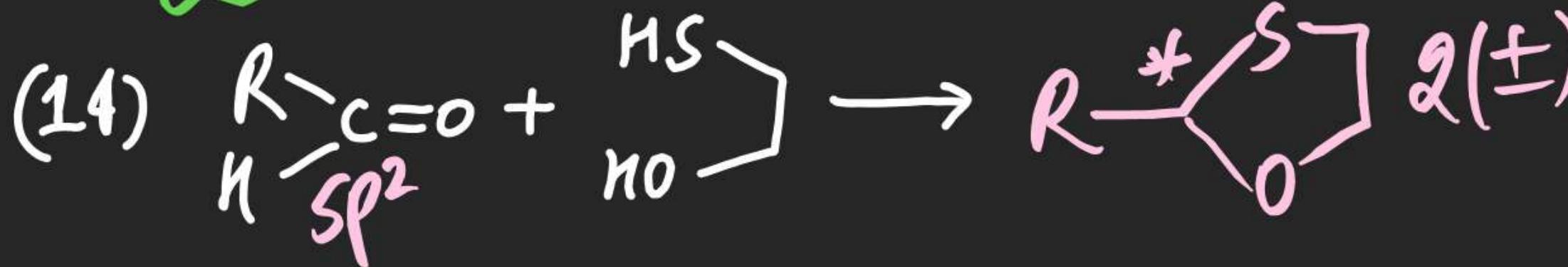
$\gamma_{12} > \gamma_{11} > \gamma_{10}$
 $\gamma_{10} > \gamma_{13} > \gamma_{16}$

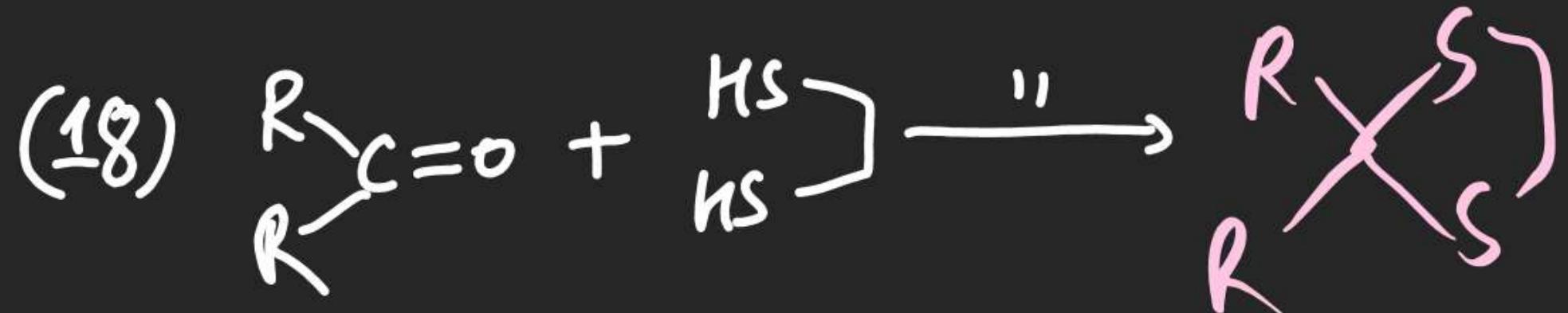
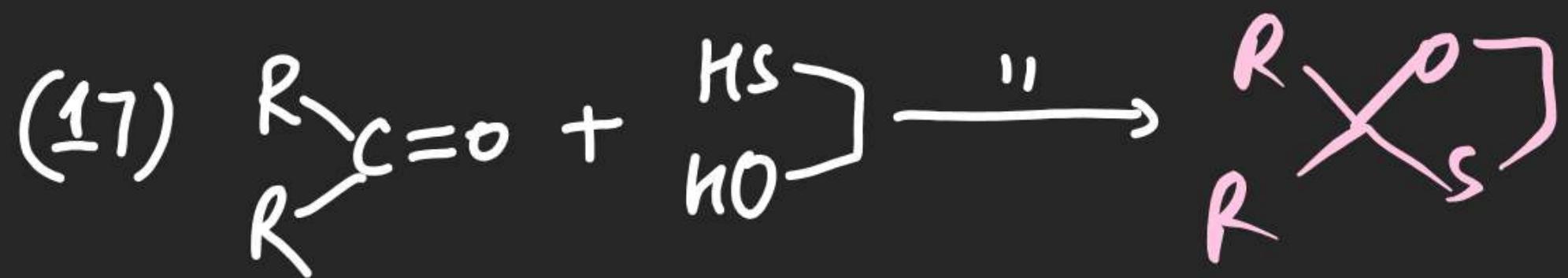
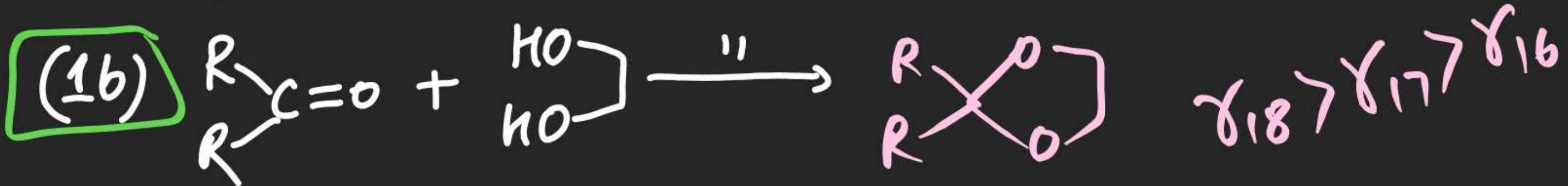
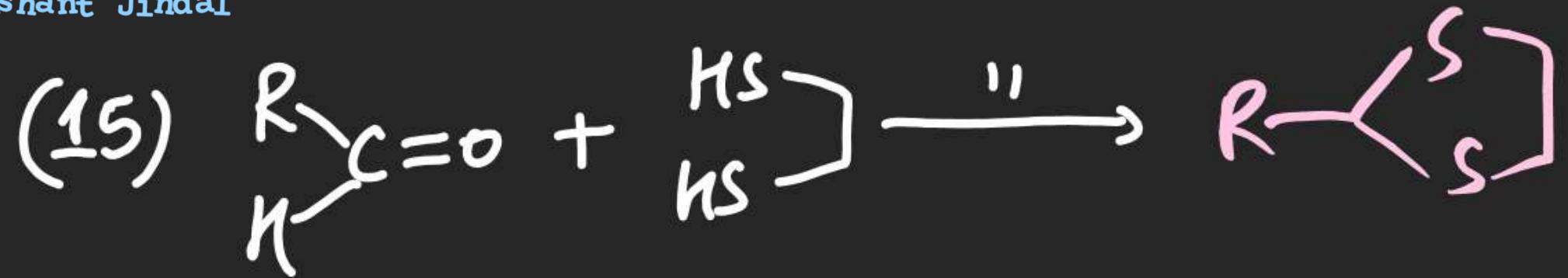


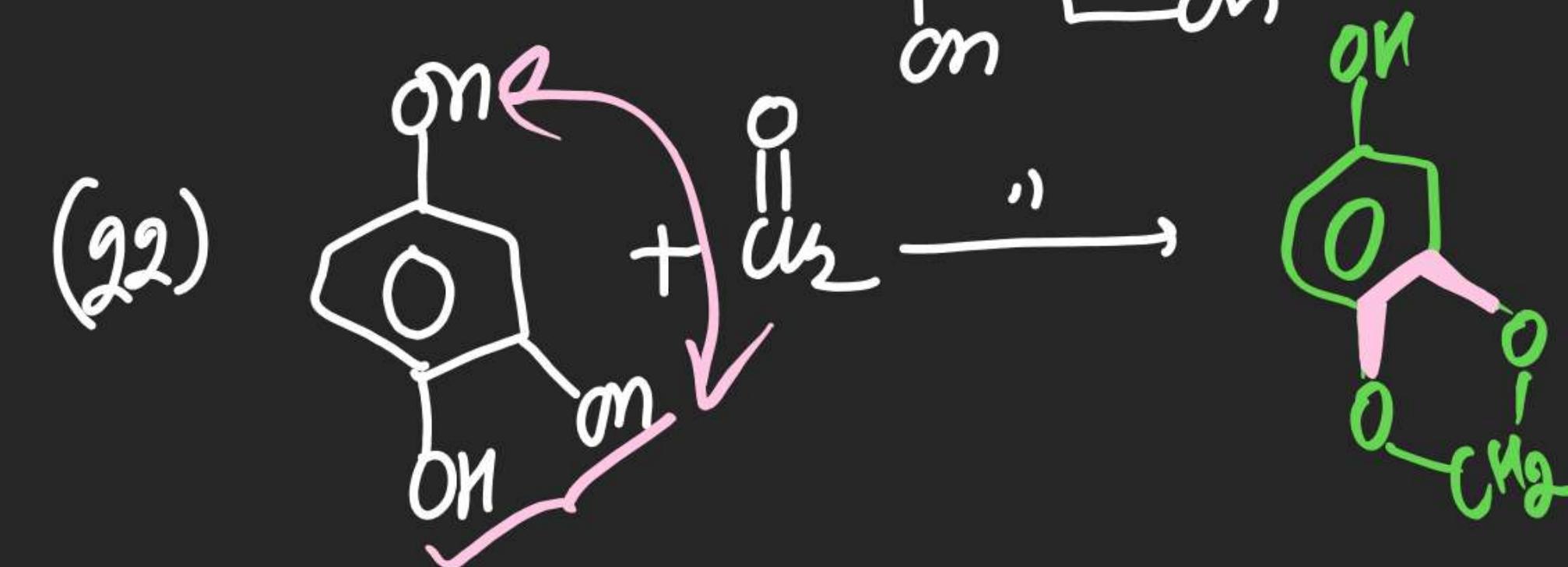
Thio Acetal
 $\gamma_{11} > \gamma_{14} > \gamma_{17}$
 $\gamma_{15} > \gamma_{14} > \gamma_{13}$

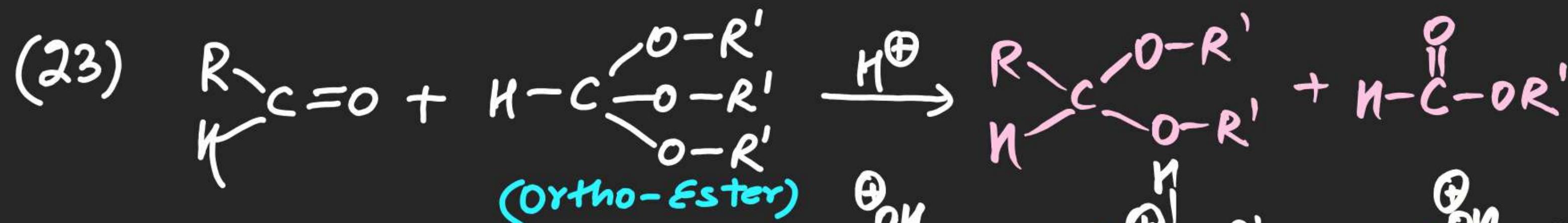


$\gamma_{12} > \gamma_{15} > \gamma_{10}$

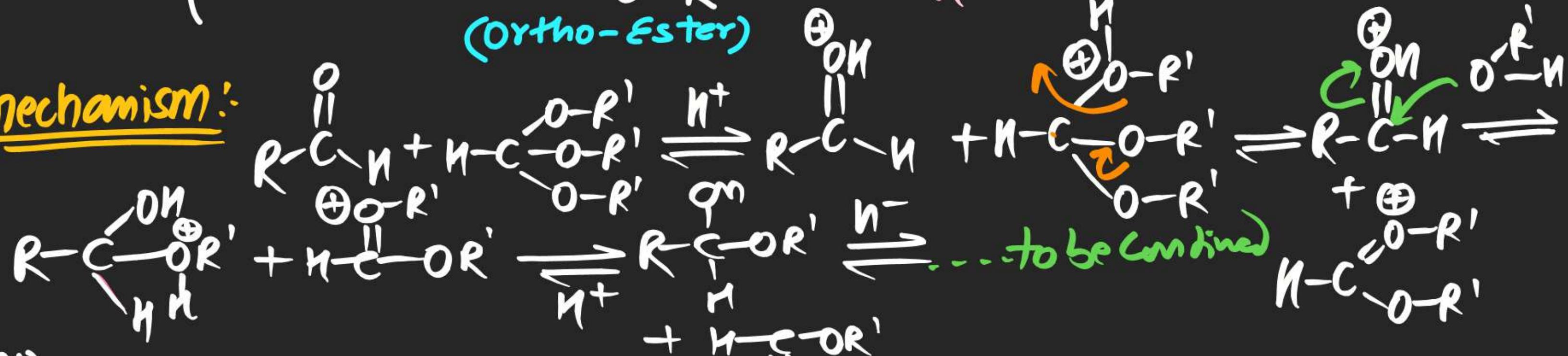




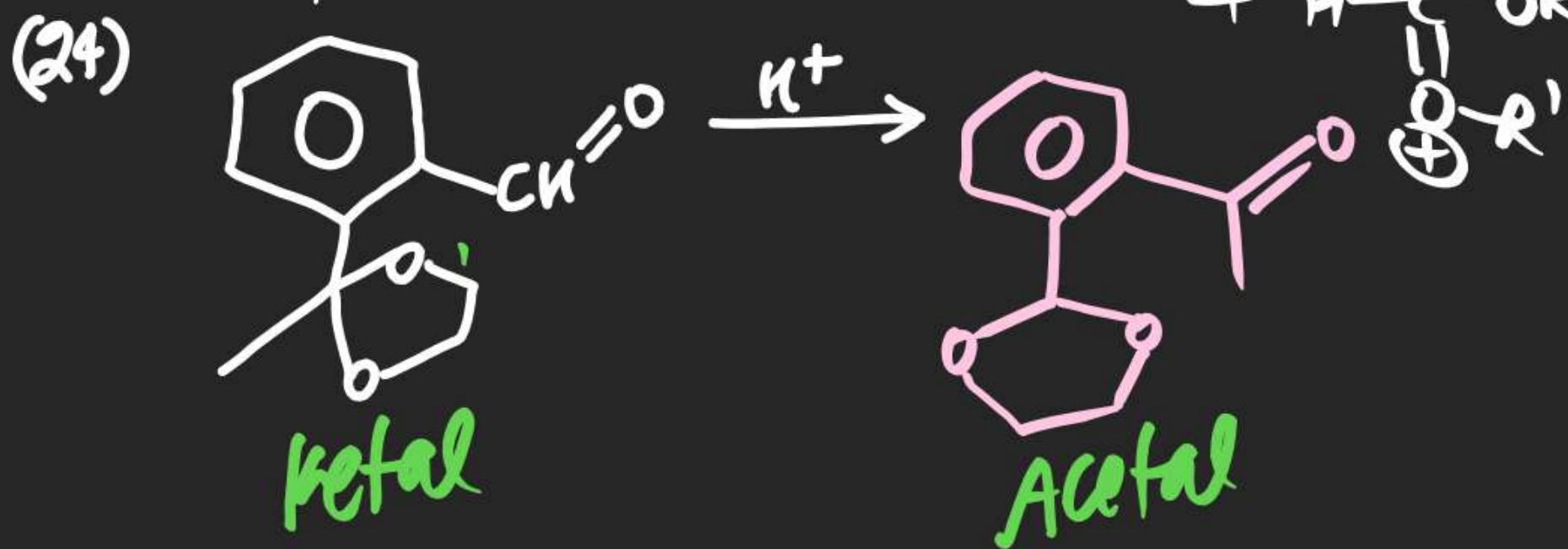
- (19) 
- (20) 
- (21) 
- (22) 

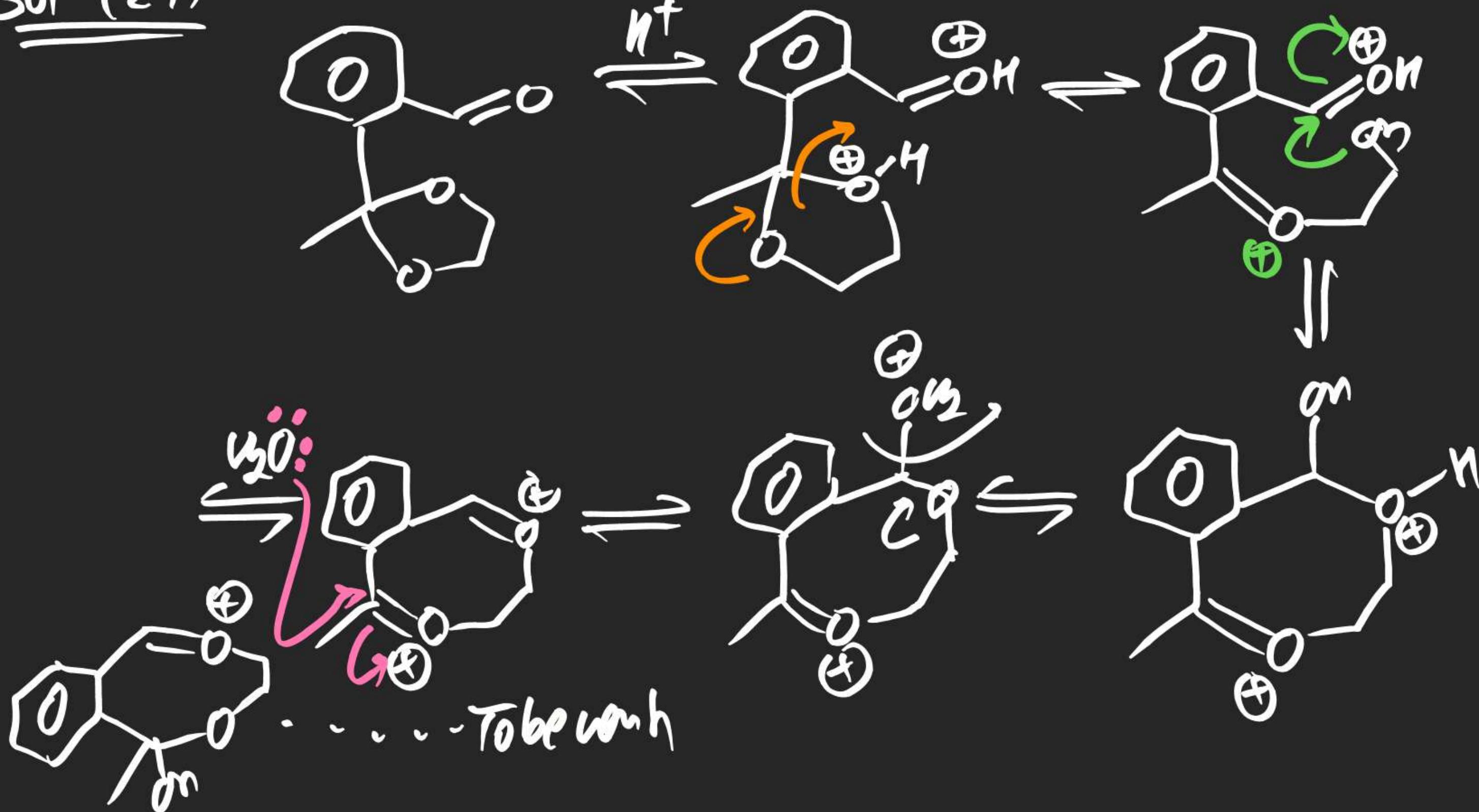


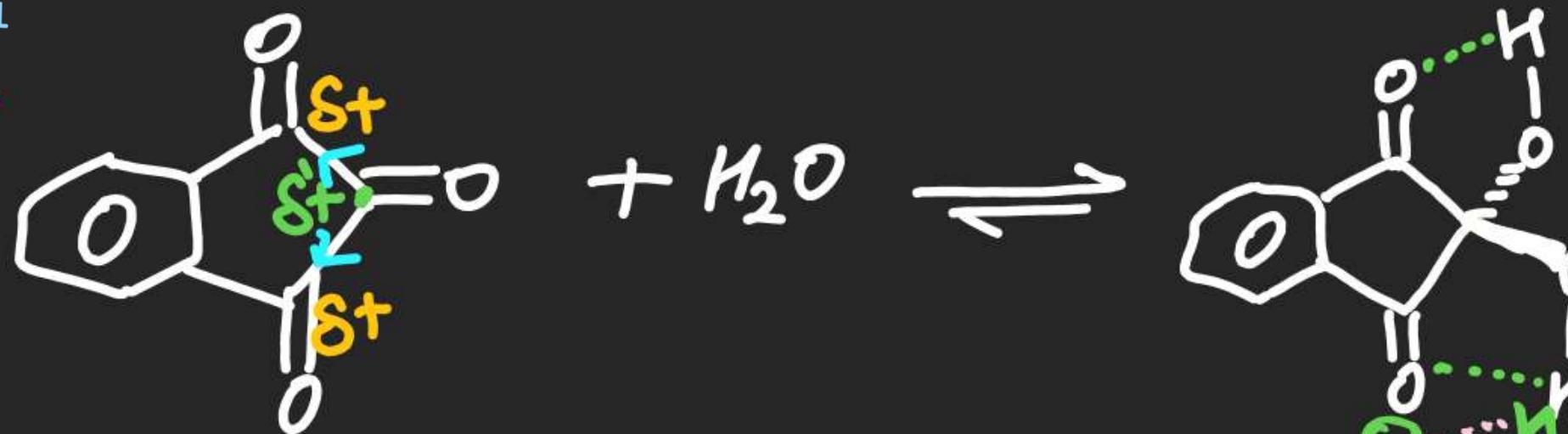
mechanism:



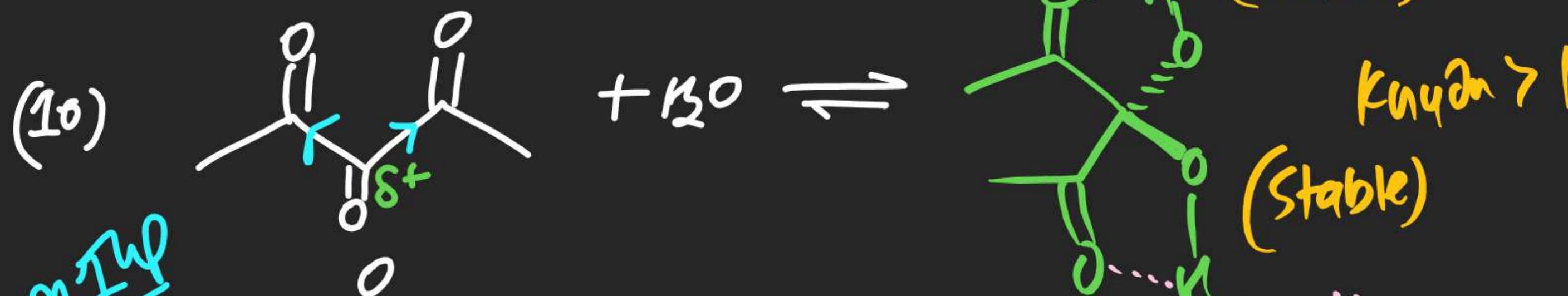
- to be continued



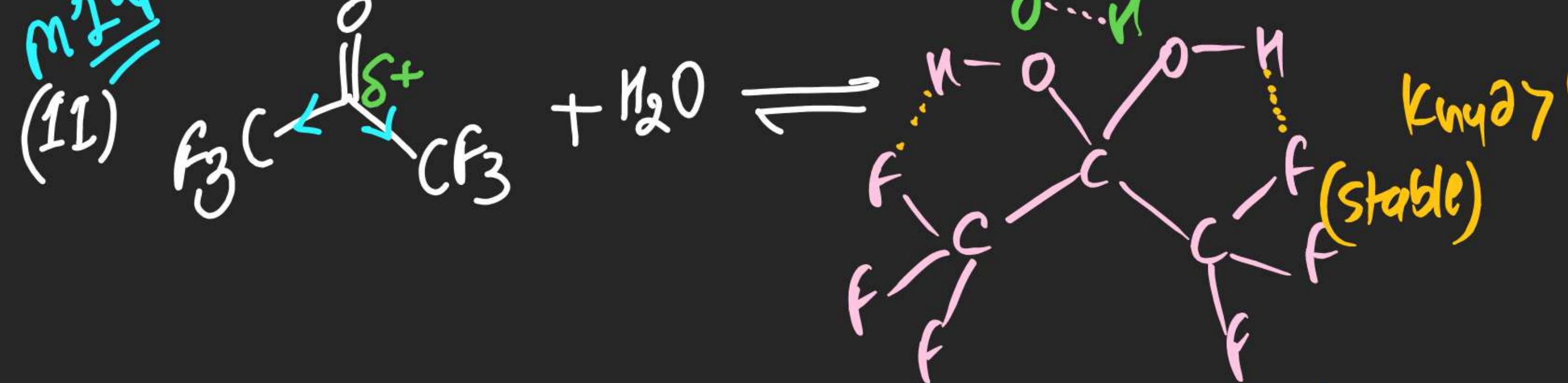
Soln (24)

~~M.TuW
(q)~~

$K_{hyd} \gg 1$
(Stable)



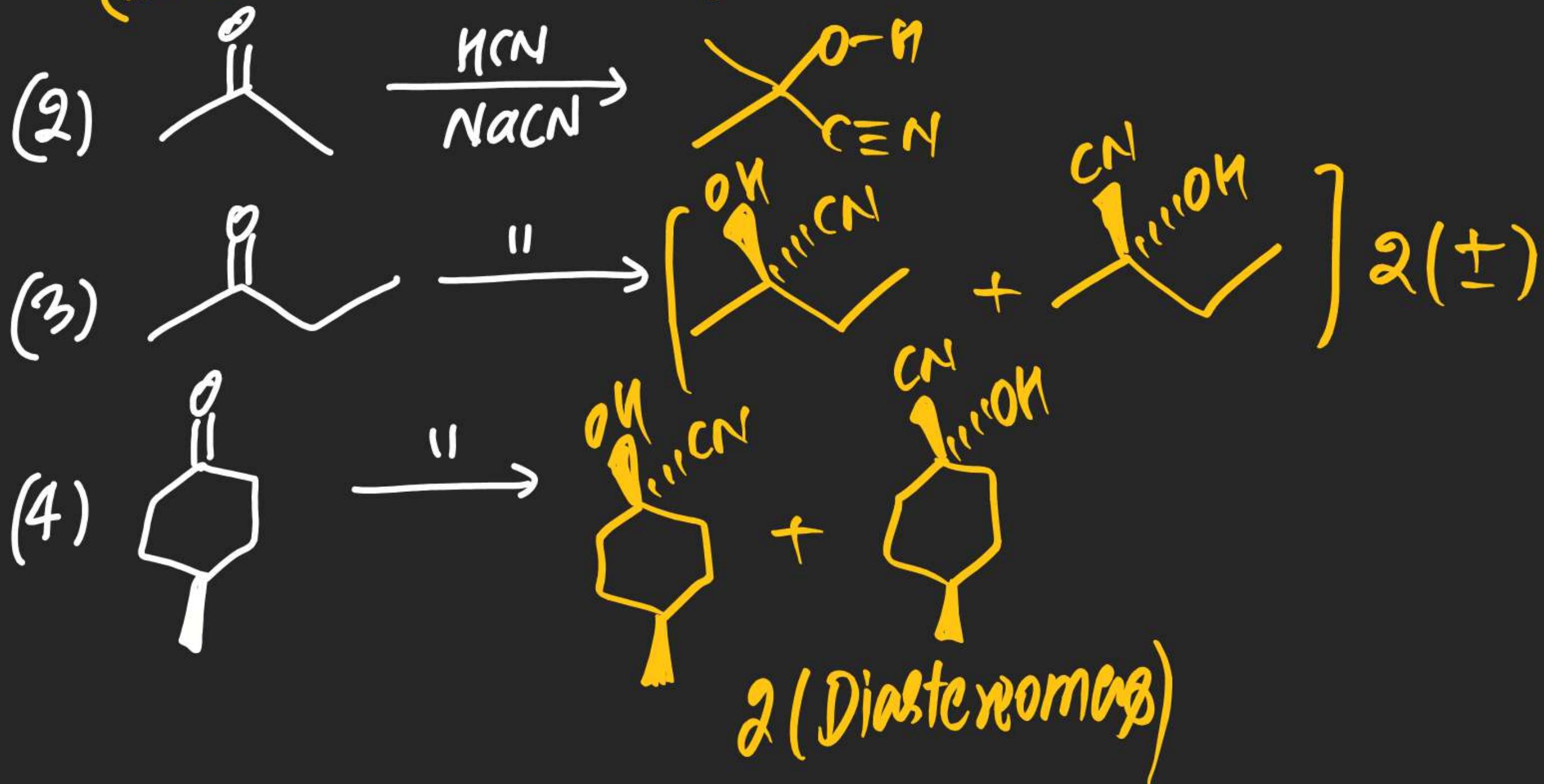
$K_{hyd} > 1$

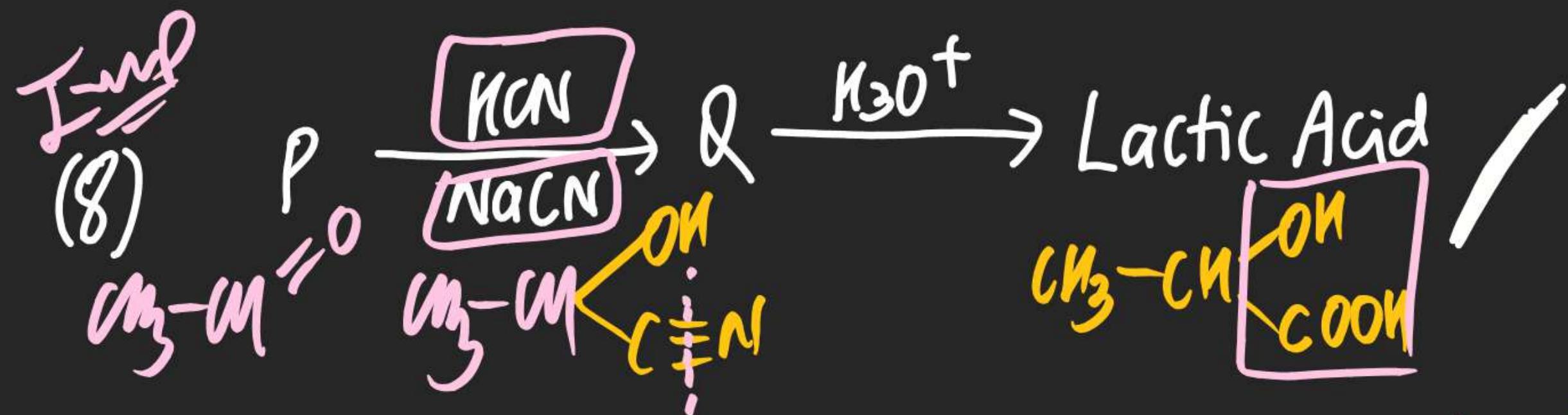


$K_{hyd} > 1$
(Stable)

Note (i) Basic condn (pH > 7) is used

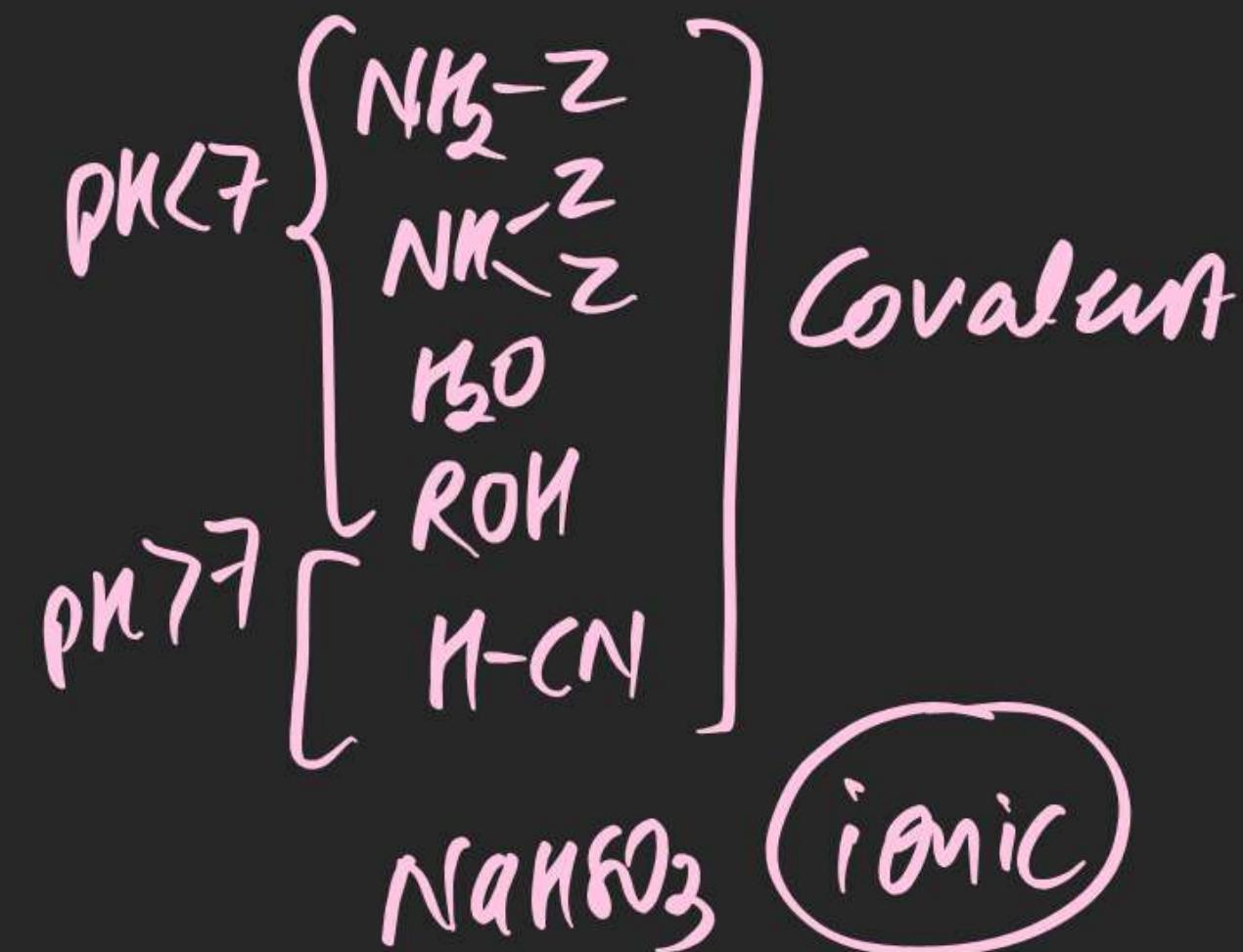
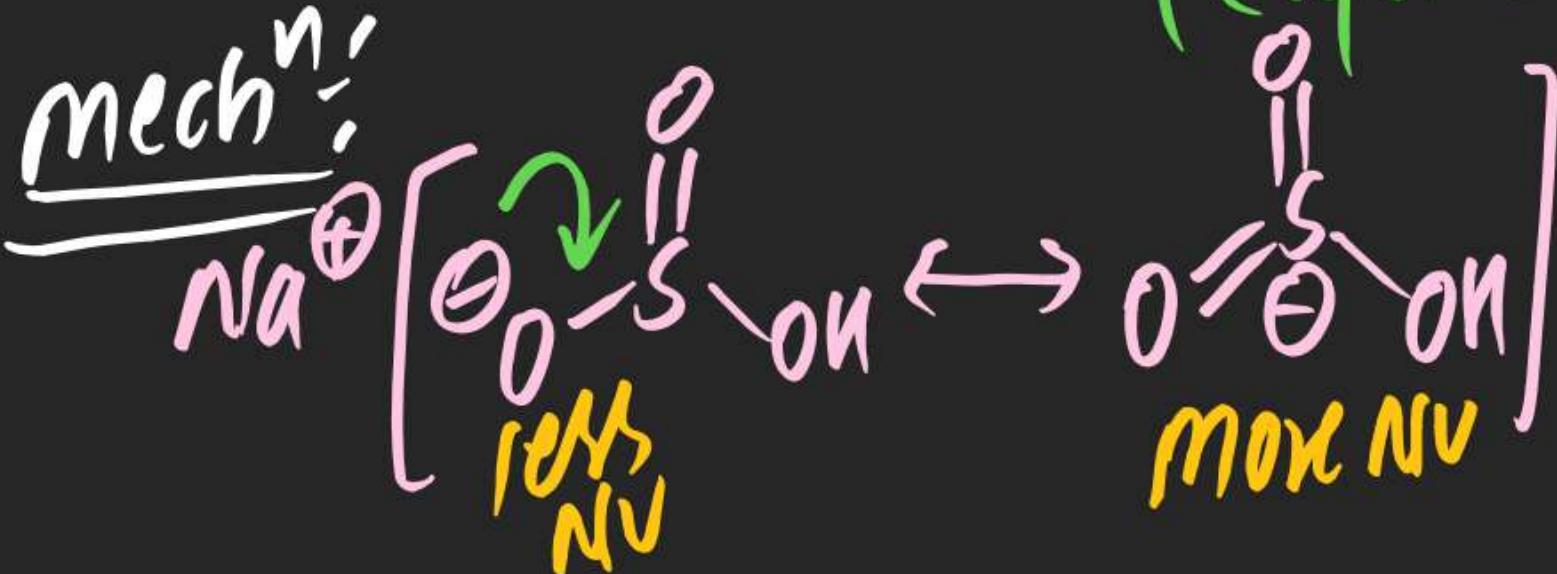
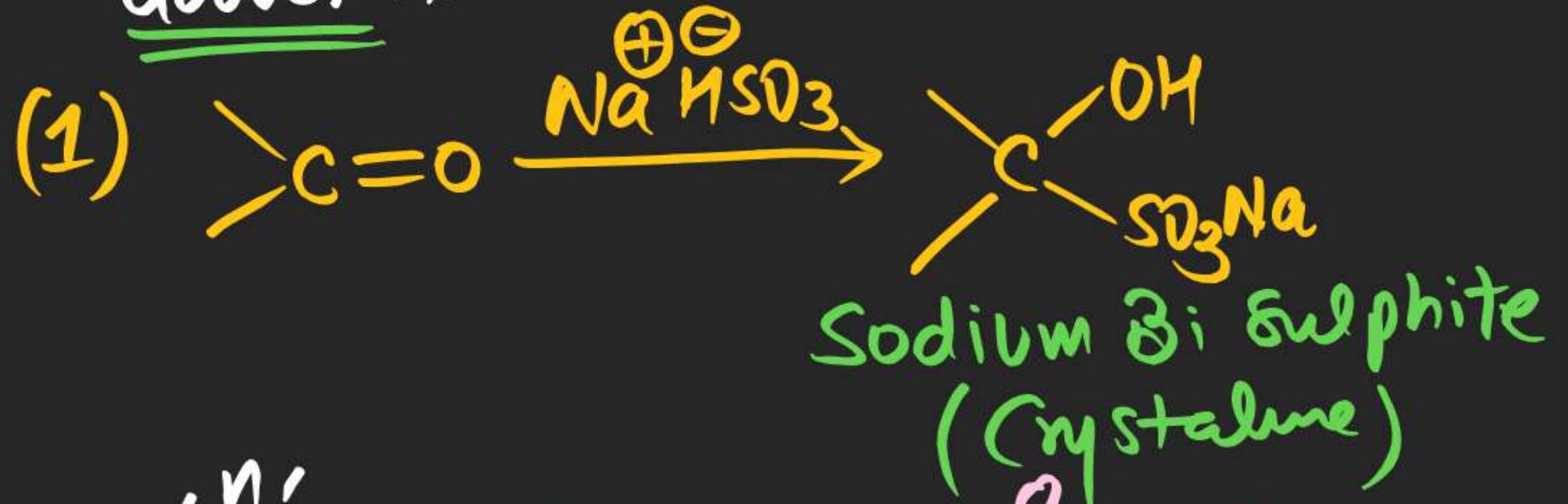
(ii) Sometimes salt of CN is also used.

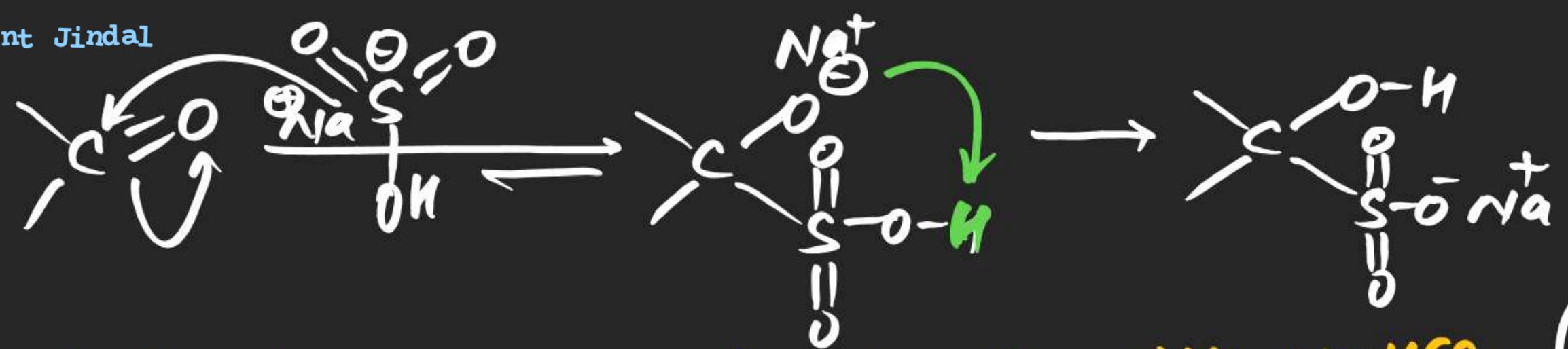




(#) Addition of NaHSO_3 :

⇒ On Reaction of C=O with NaHSO_3 , Sodium Bi sulphite adduct is obtained as a product.





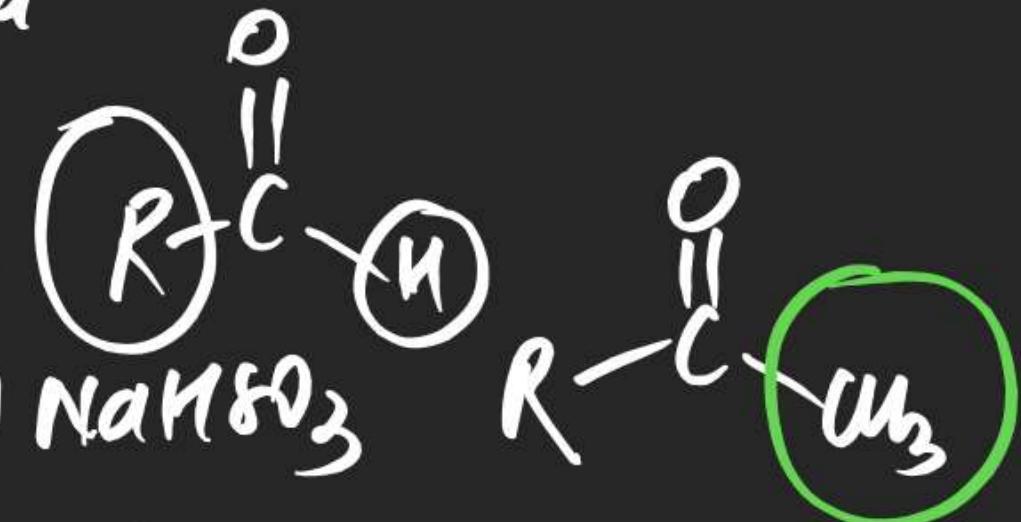
Note :- (i) All aldehydes React with NaHSO_3

(ii) Only methyl ketones show Rxn with NaHSO_3

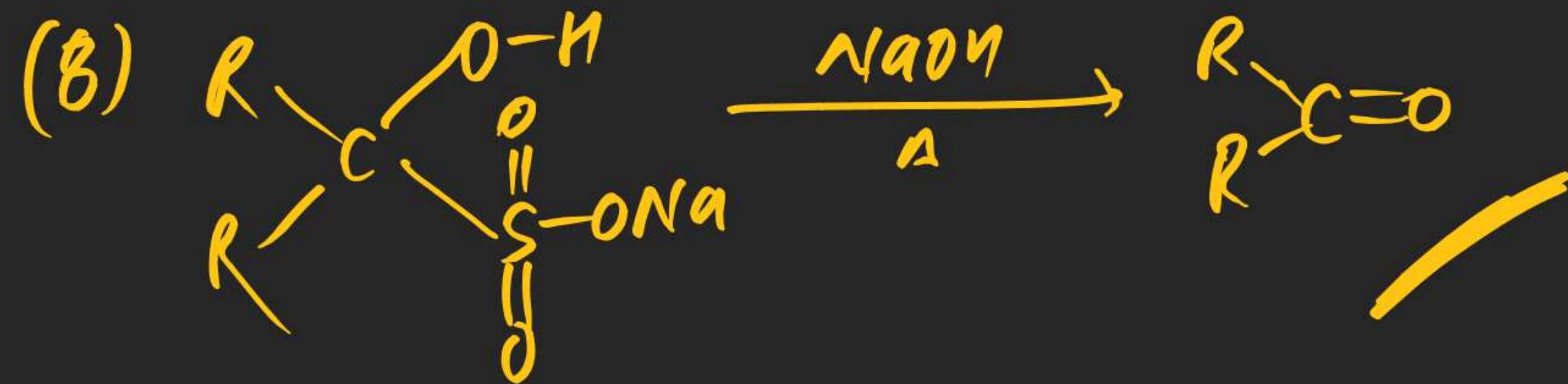
~~(iii)~~ Rxn is used for distinction b/w methyl & non methyl ketones

(iv) Cyclic ketones show positive Rxn

(v) Adduct in Basic medium get decomposed into

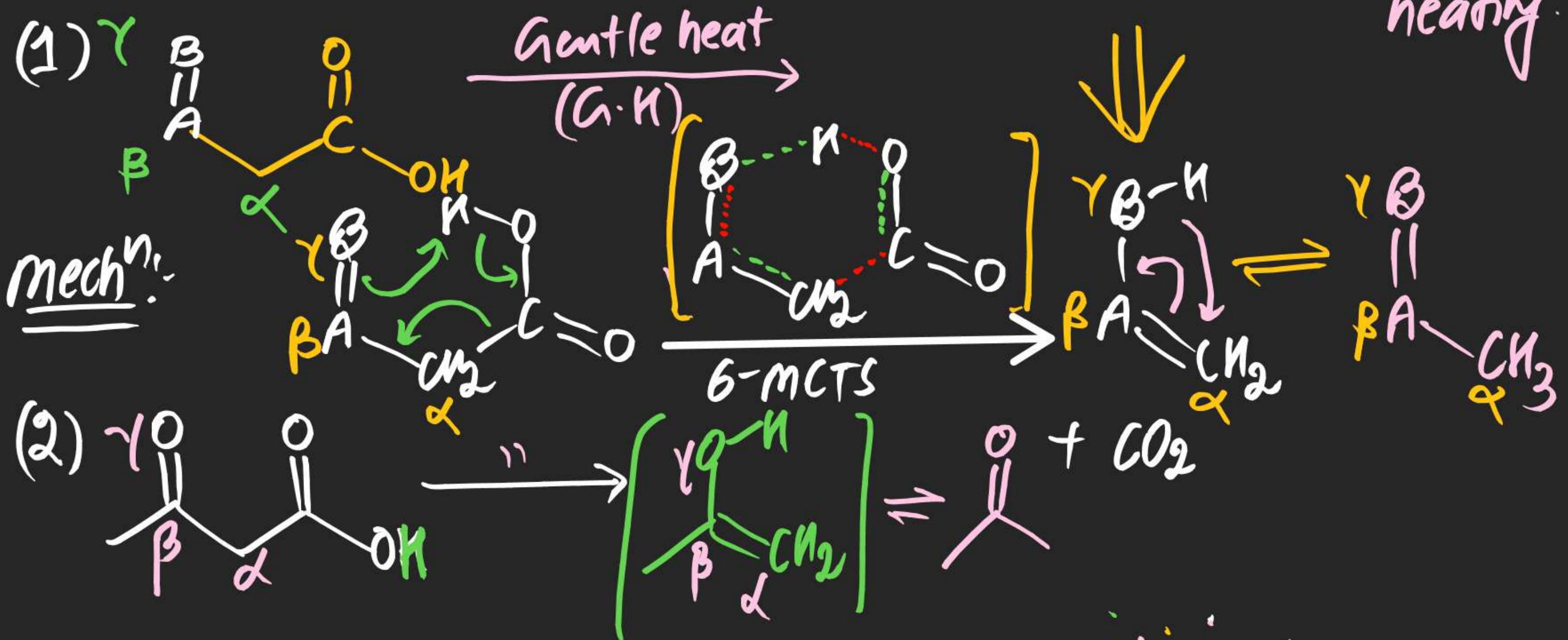




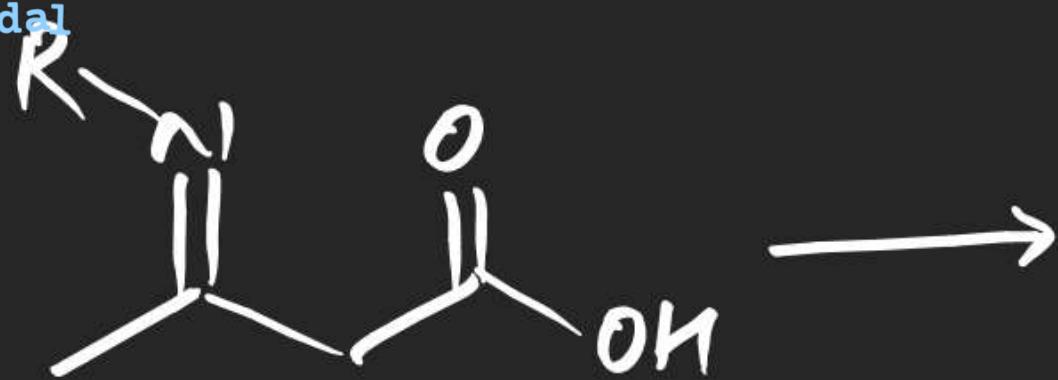


Heating Effect

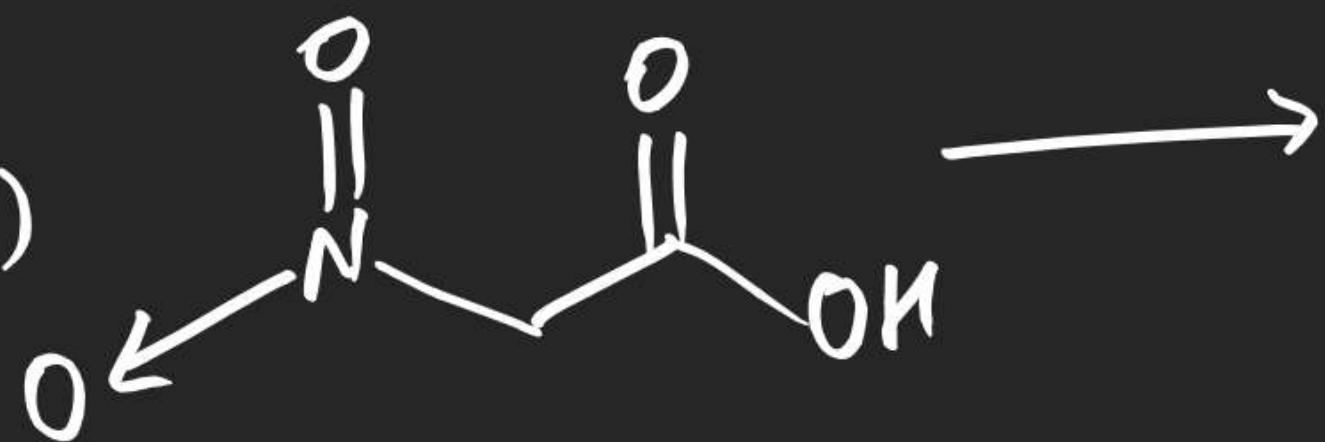
(#) $\beta\text{-}\gamma$ unsaturated Carboxylic Acid: Such kind of Acids gets decarboxylated on gentle heating.



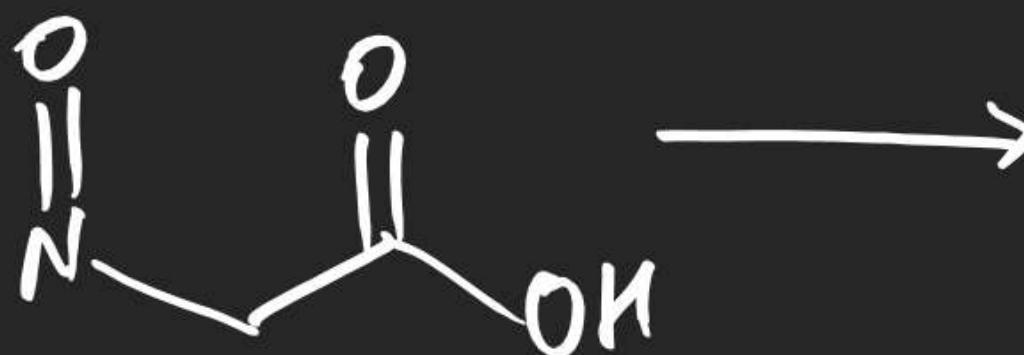
(3)

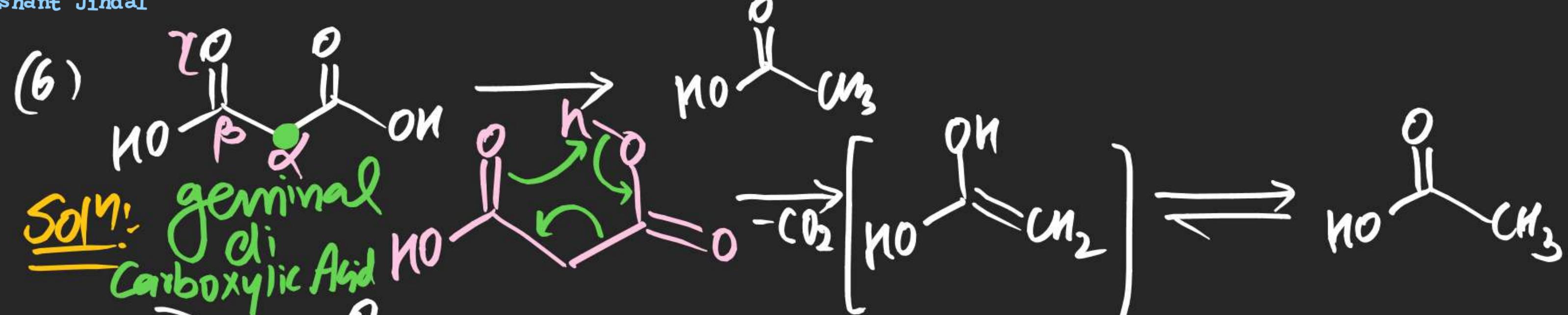


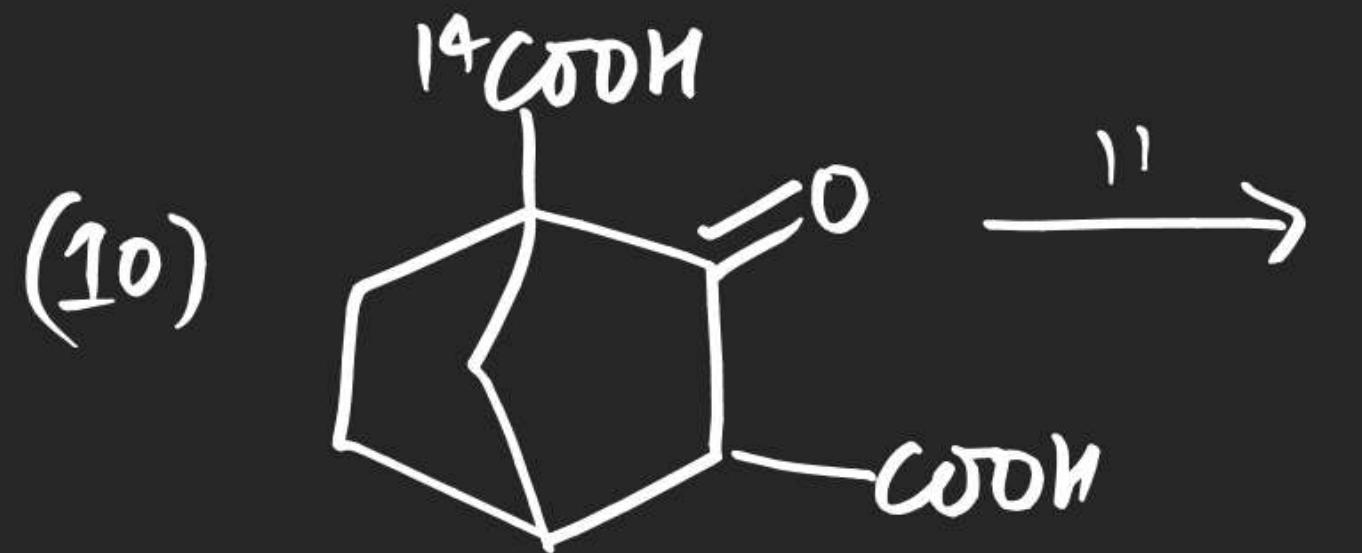
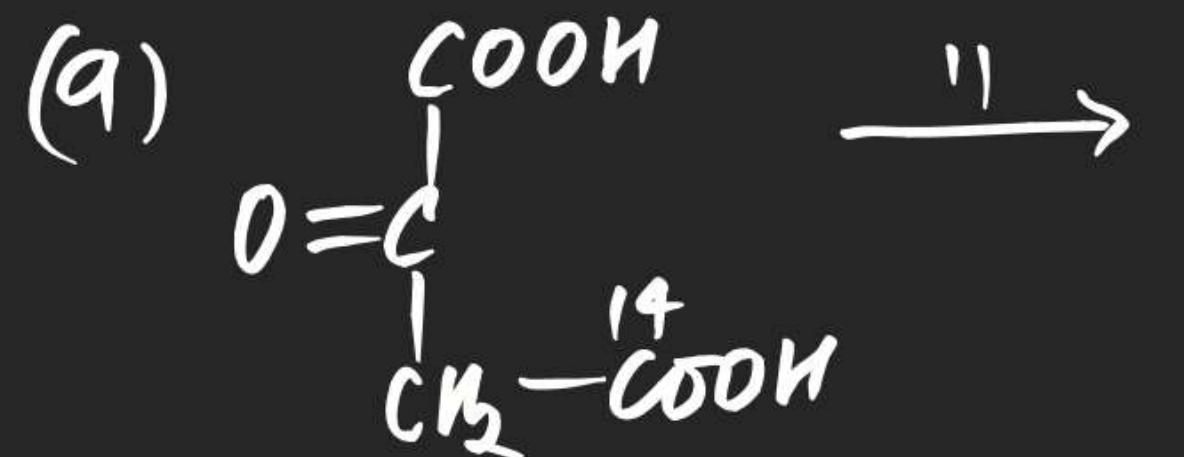
(4)

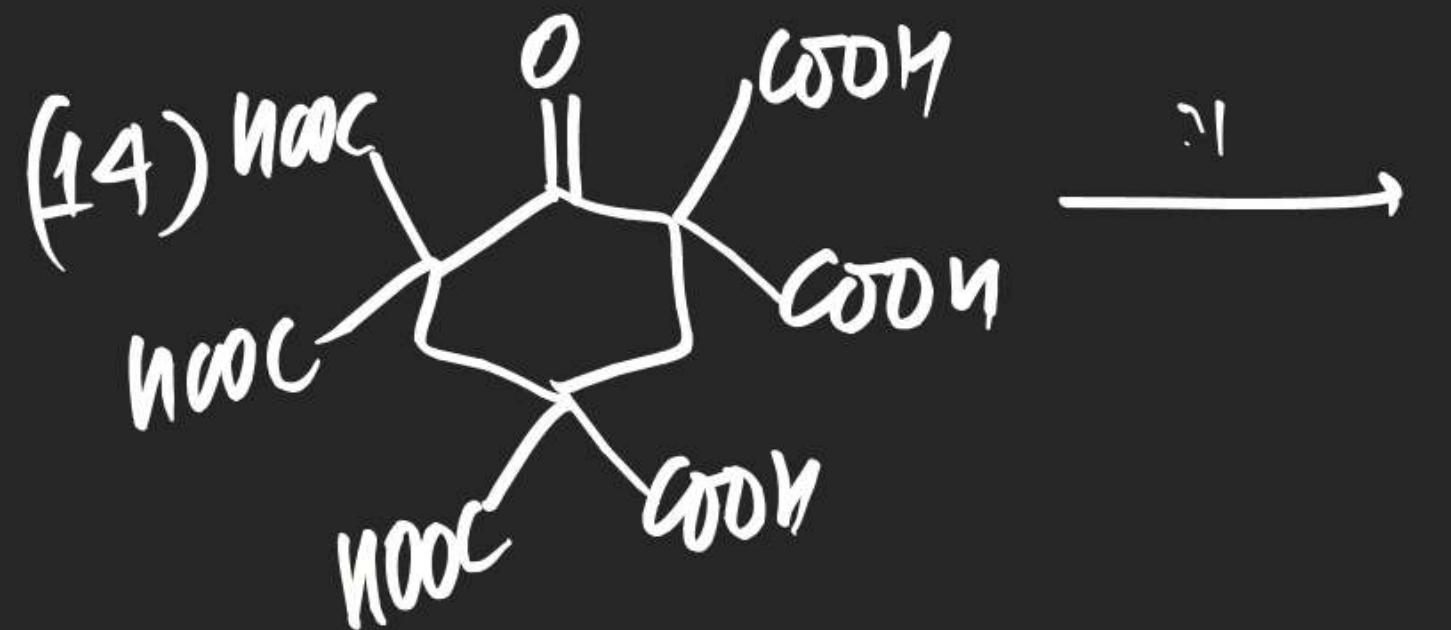
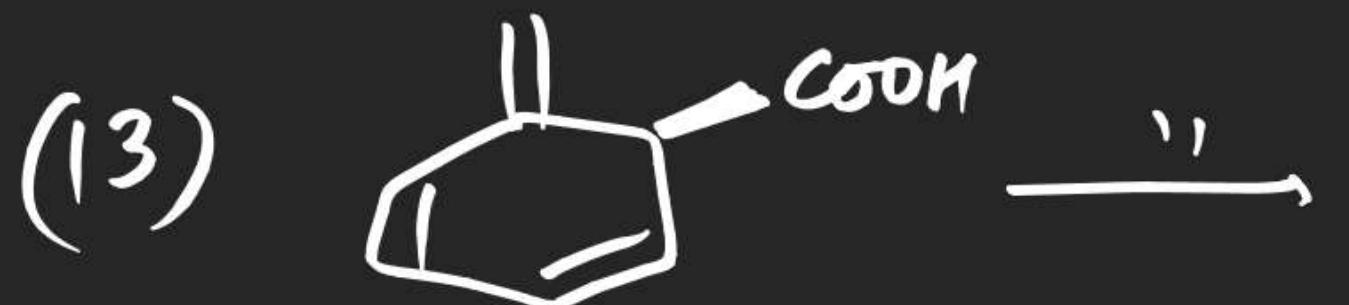


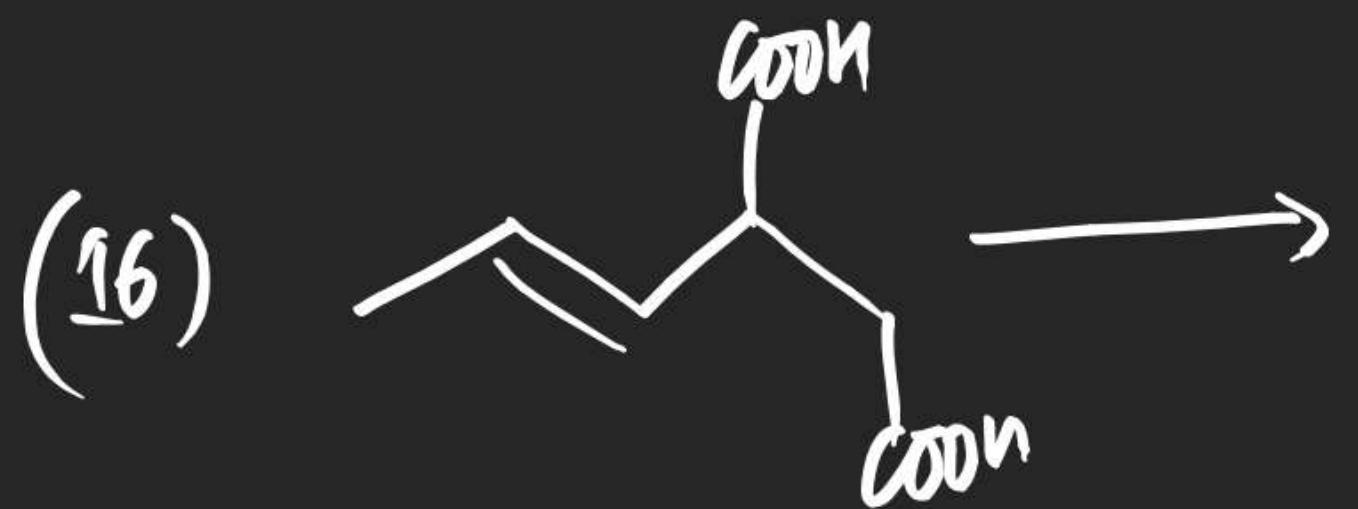
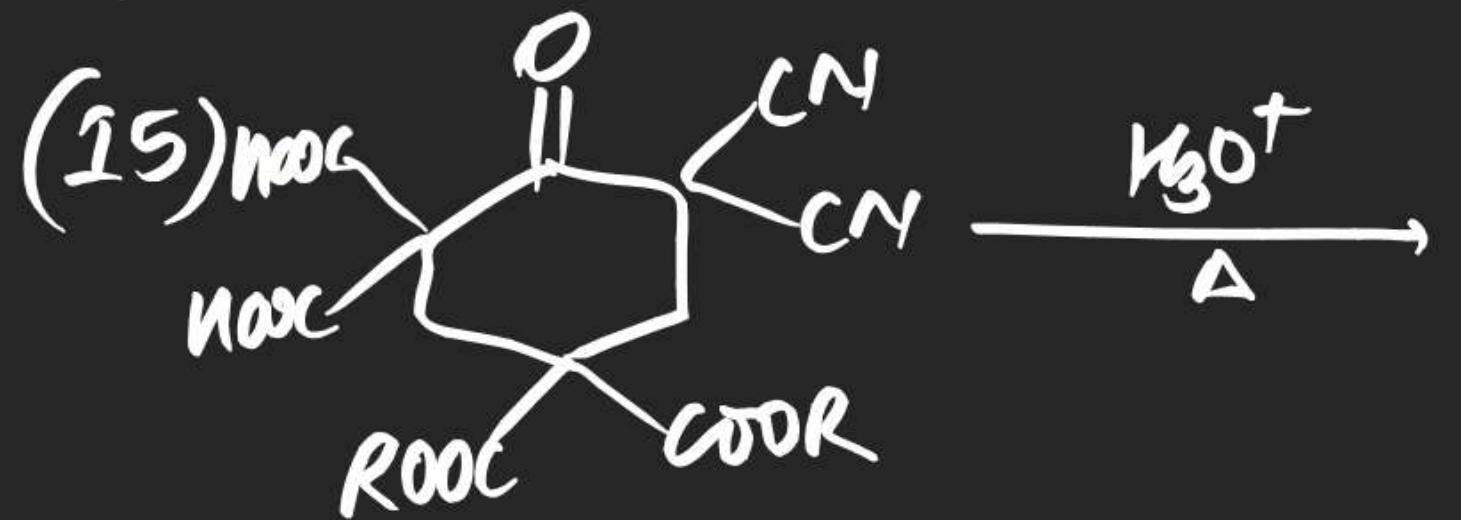
(5)

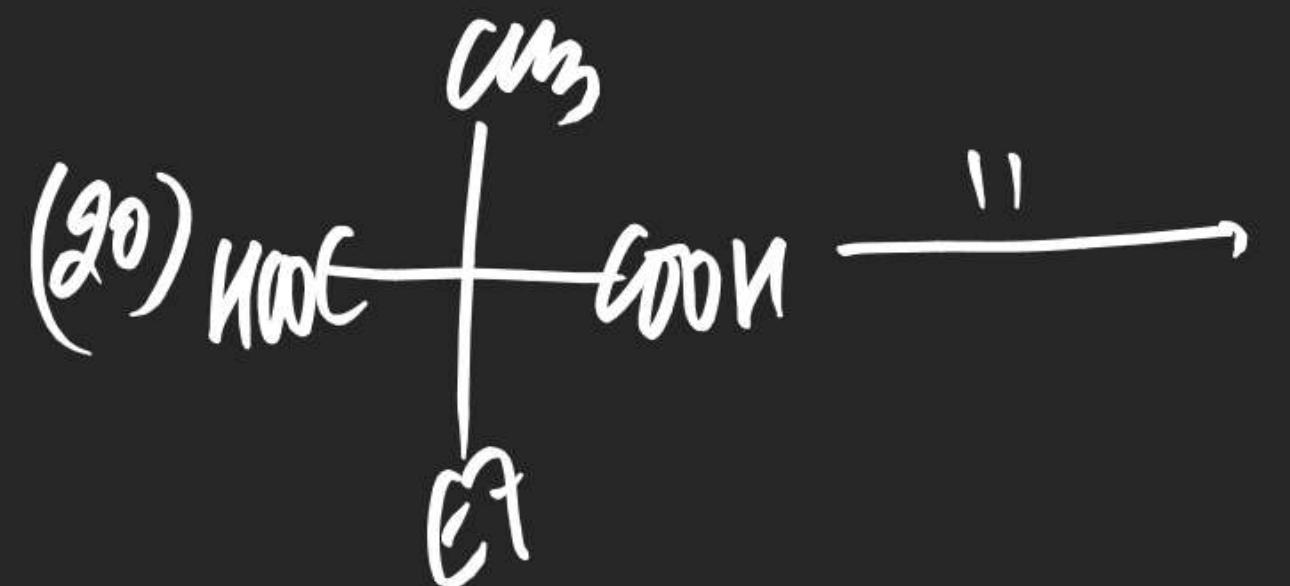
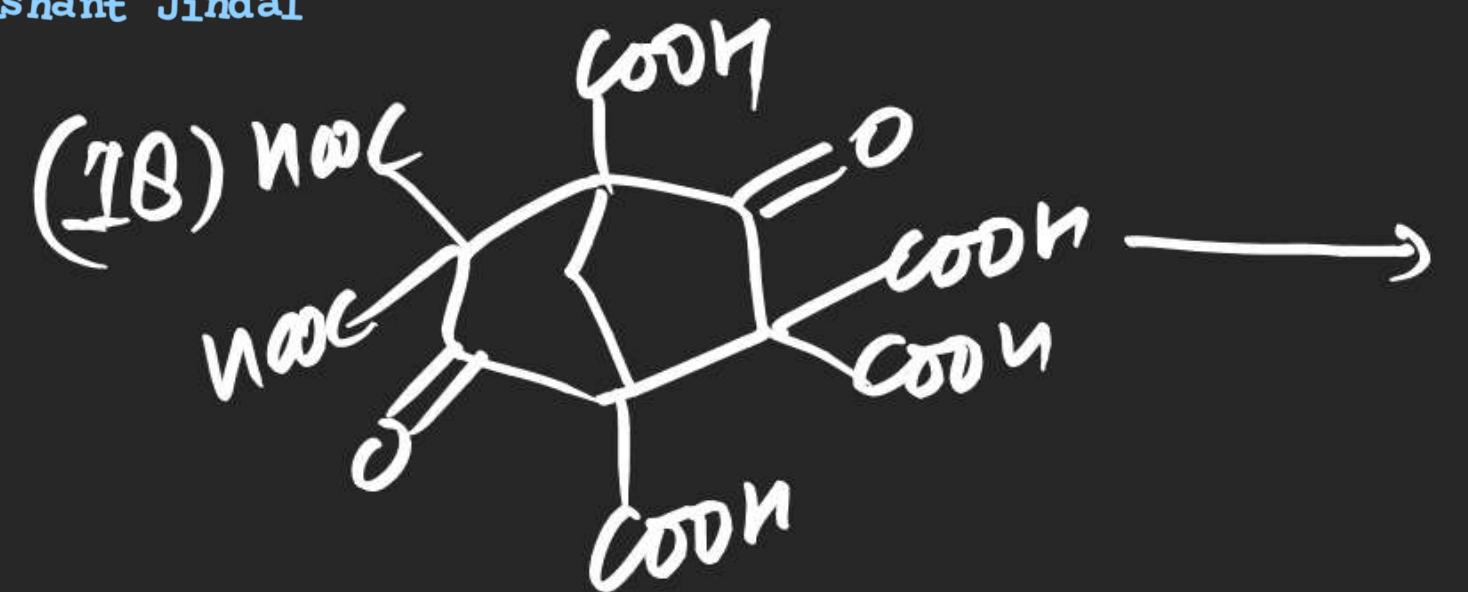








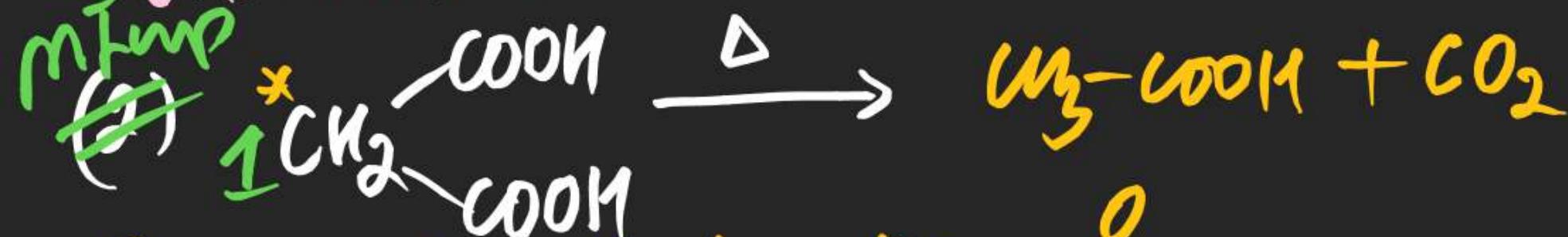




(#) Heating of Di Carboxylic Acid!



Oxalic Acid



Geminal di Carboxylic



Vicinal di Carboxylic

mechn!

