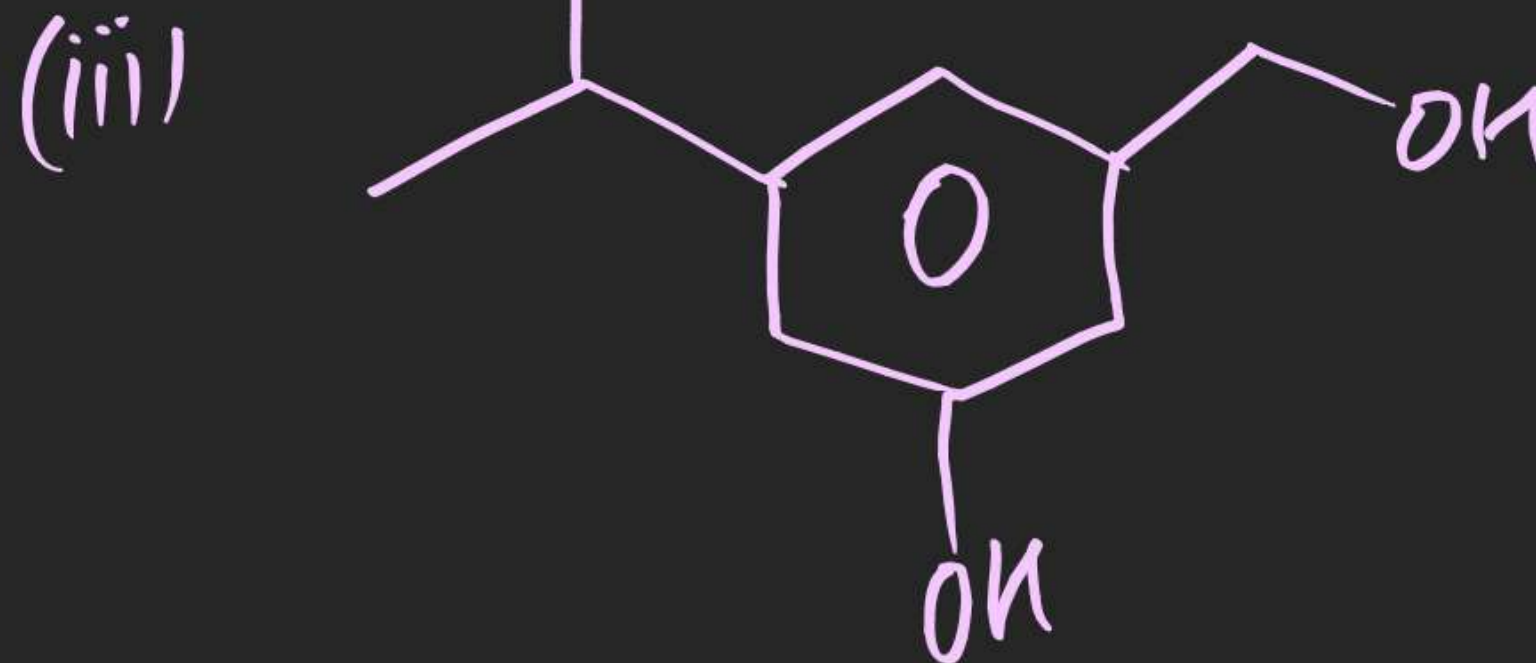
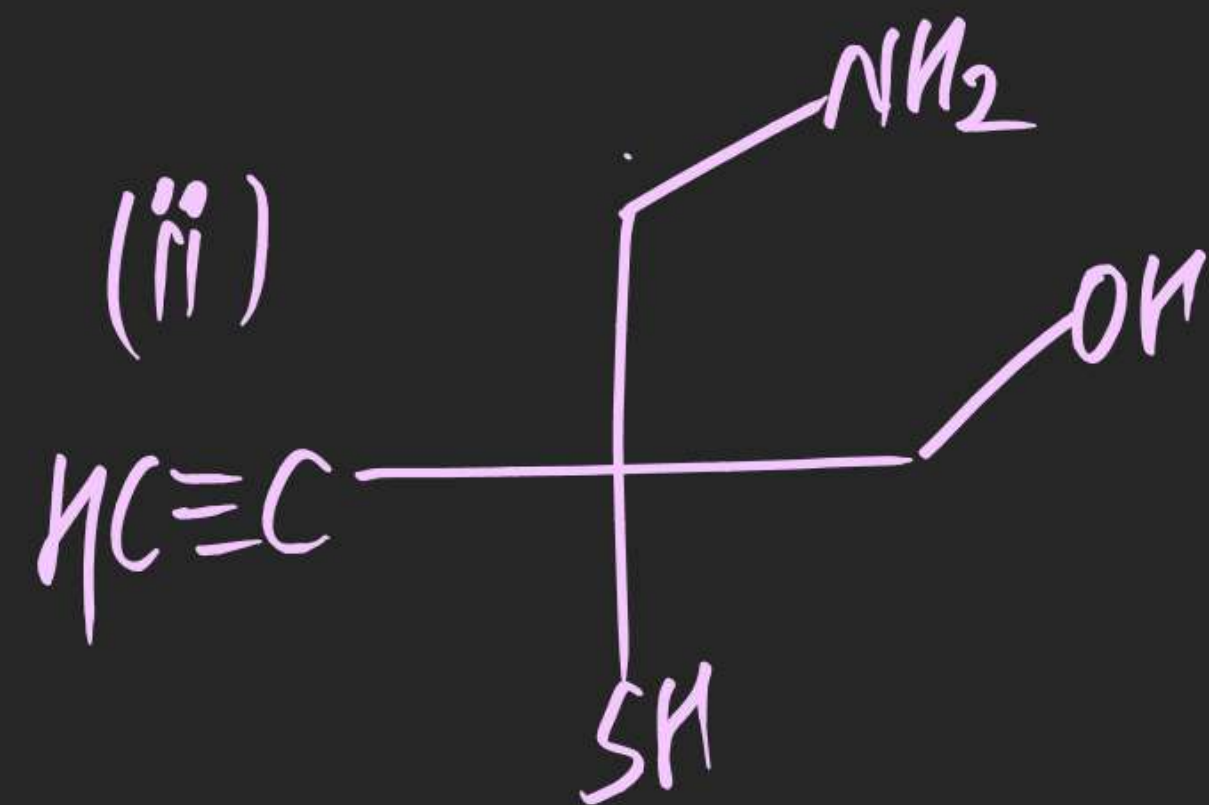
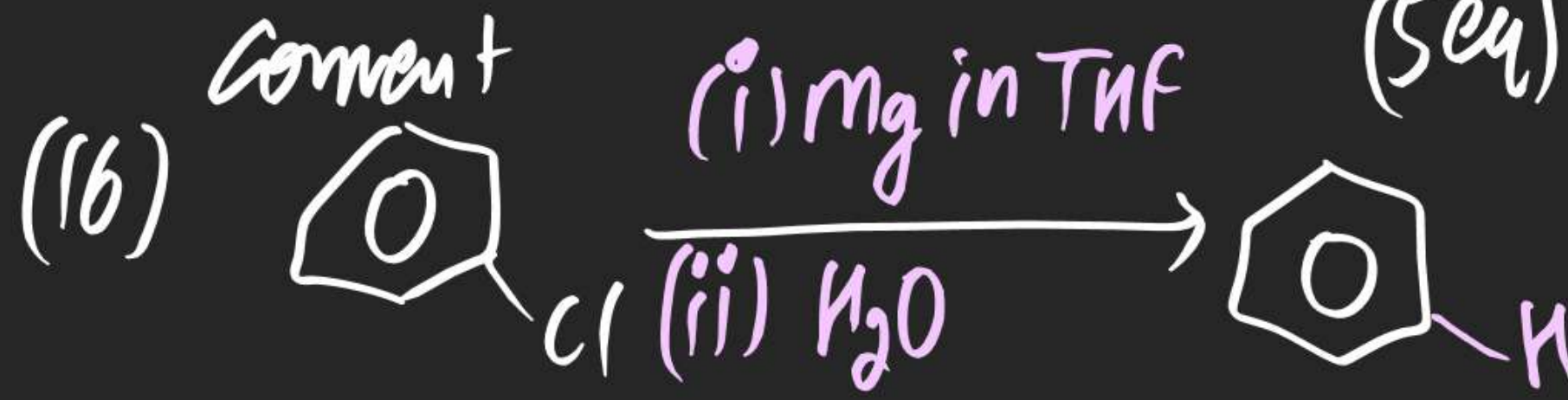
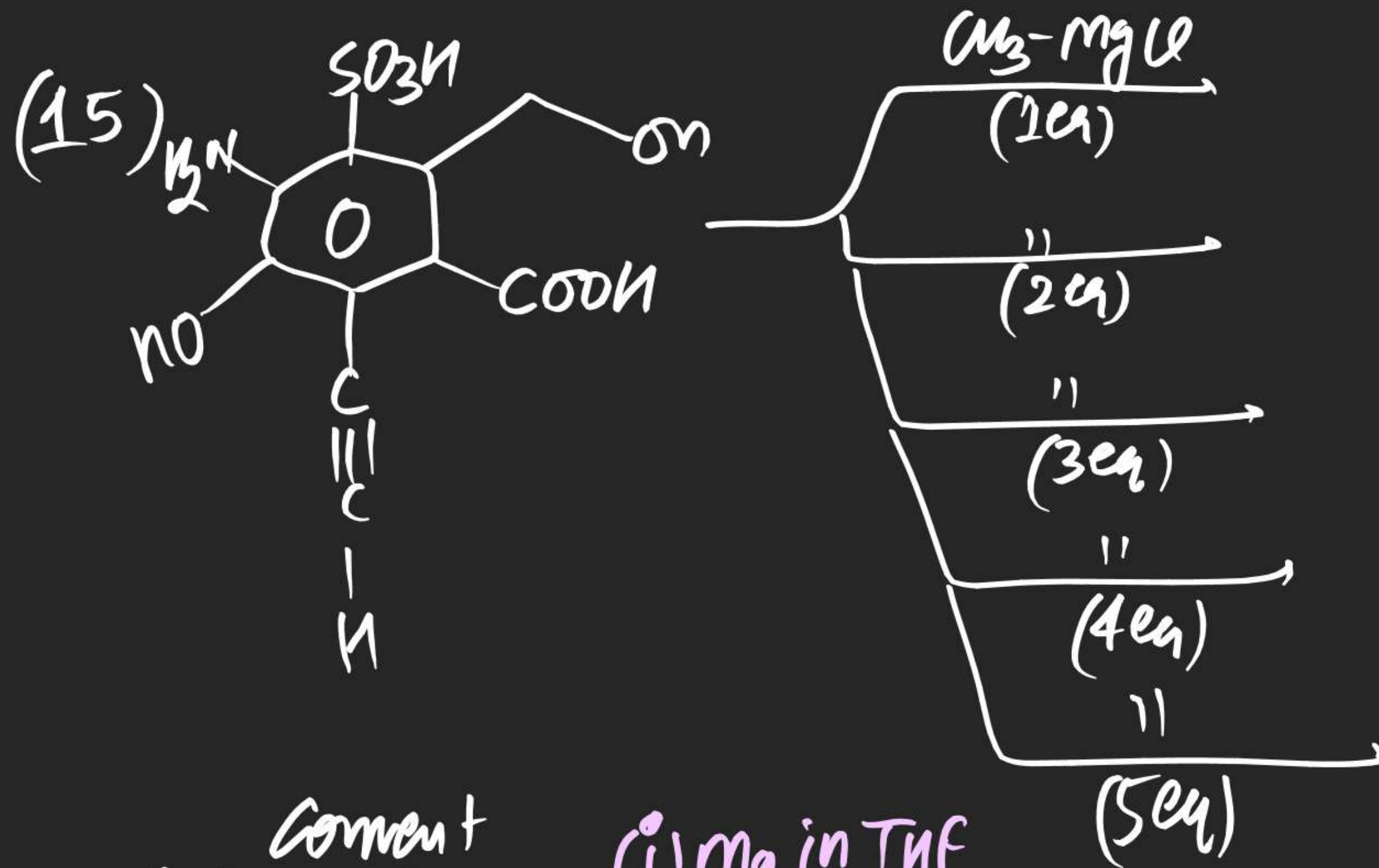


(14) Total no. of index of R_{mg}
Consumed By following



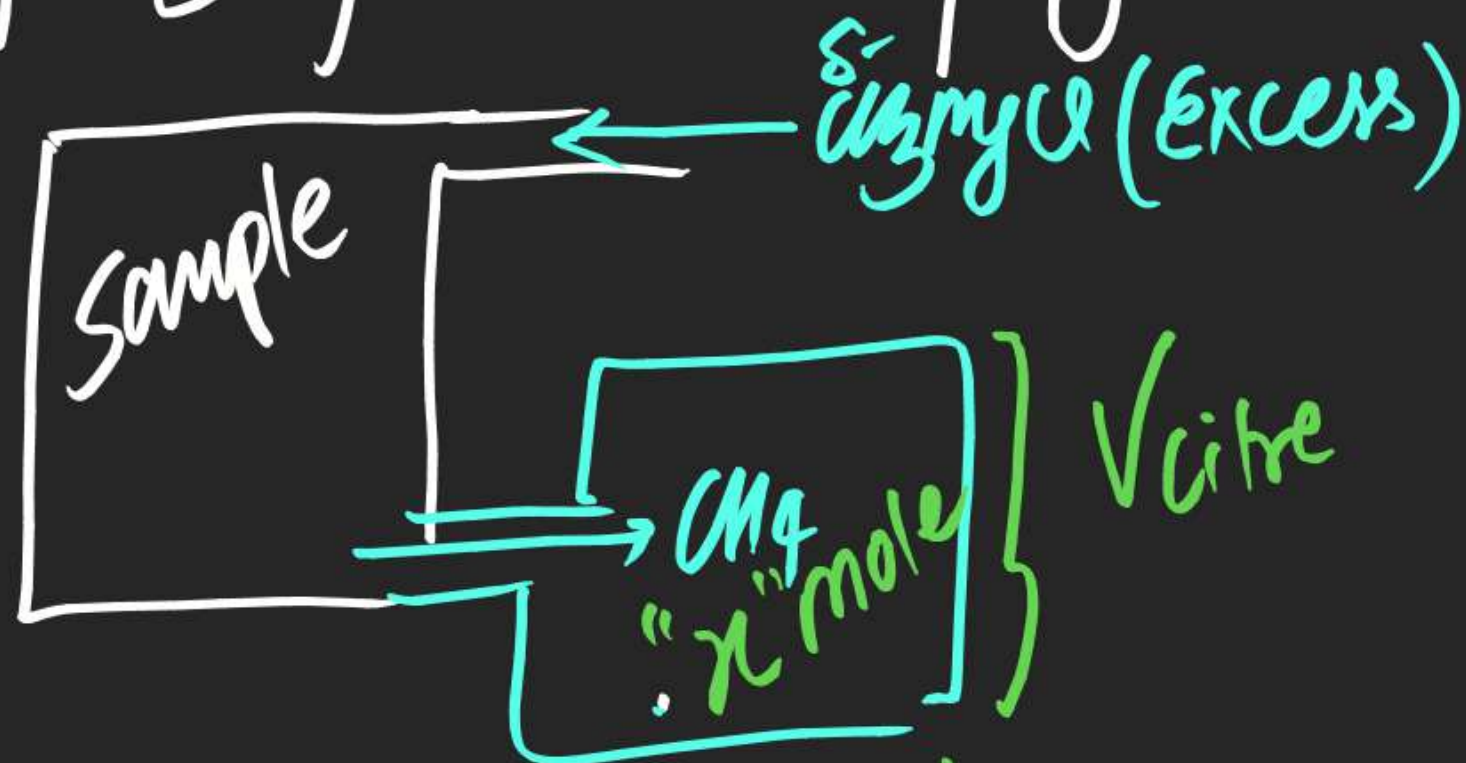




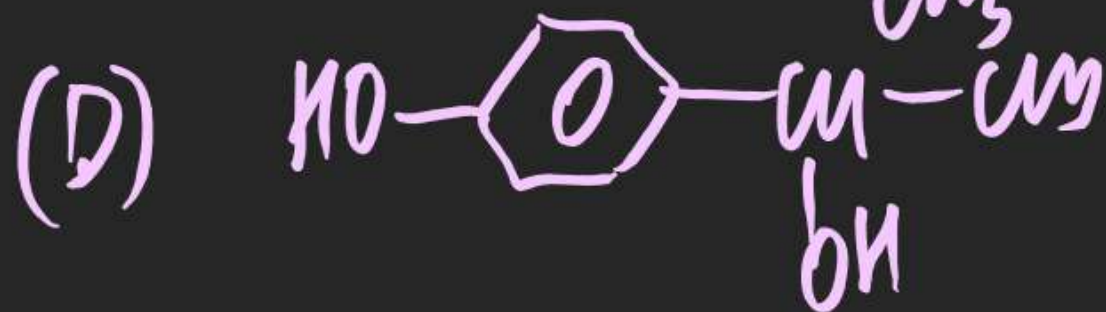
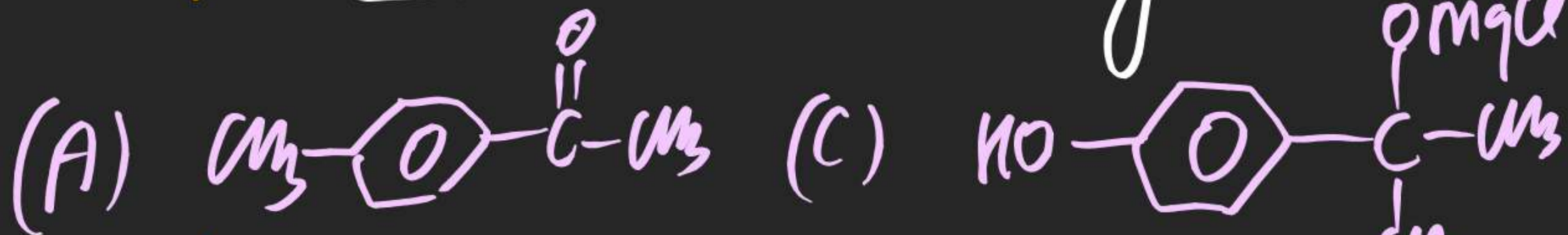
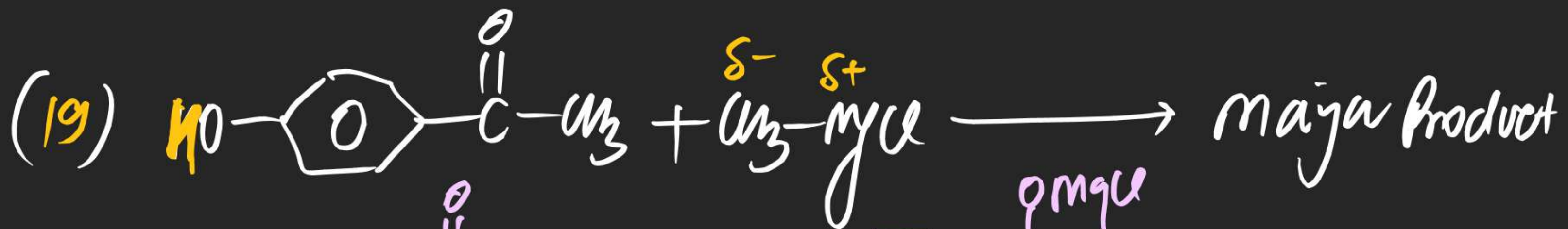
(#) Zerewitnoff's Active Hydrogen determination method

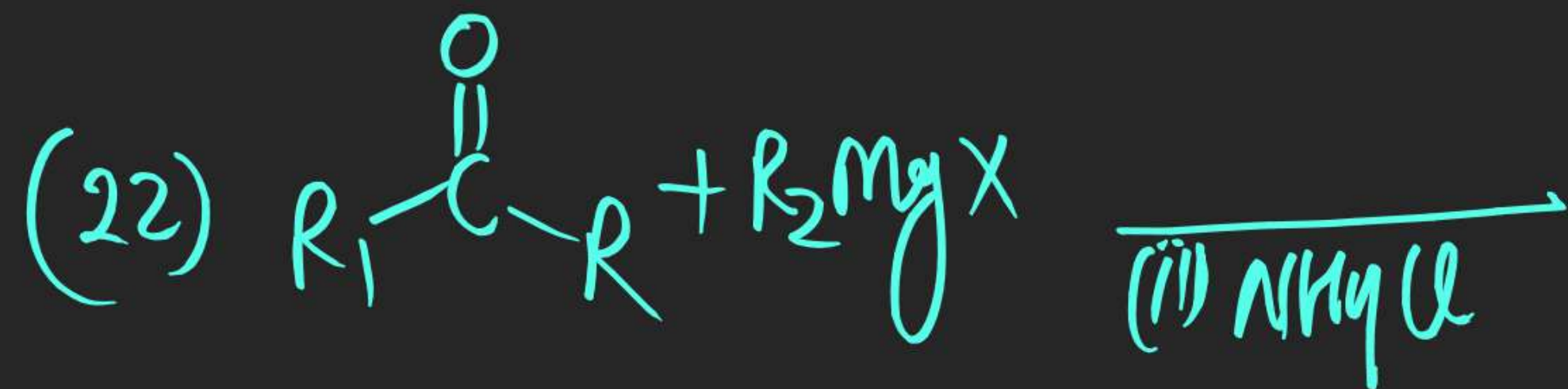
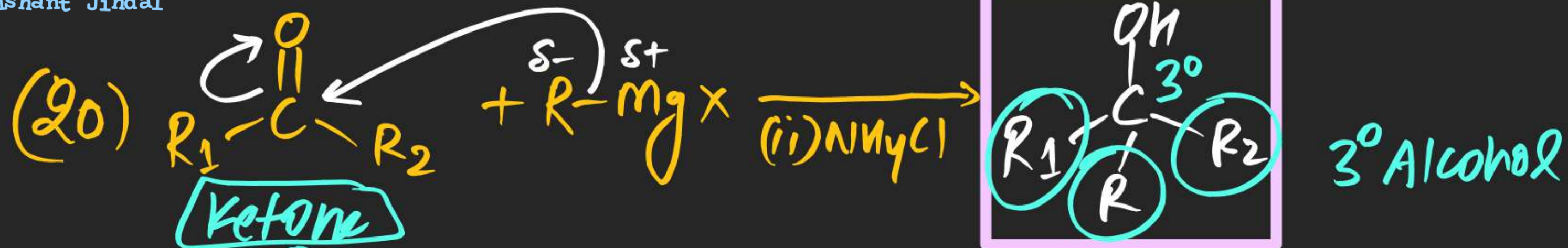
⇒ Sample is containing "x" no. of Active/Acidic sites. We can find "x" by passing excess of CH3MgBr & analysing Volume of CH4 gas liberated at STP

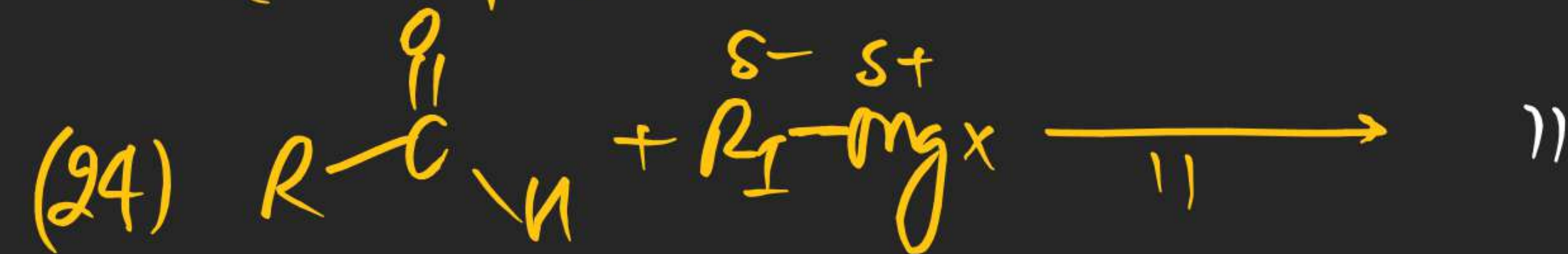
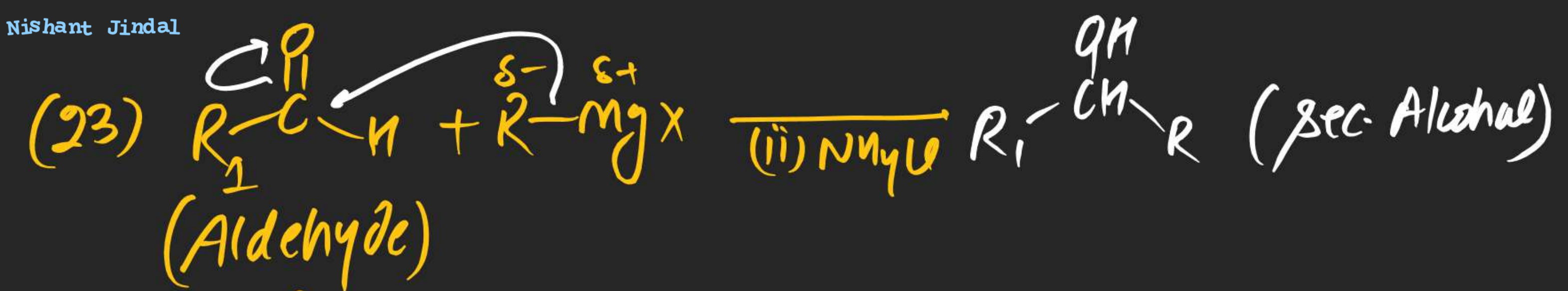
$$x = \frac{V_{\text{litre}}}{22.4}$$



(18) Find Volume of CH_4 gas evolved at Rx^n b/w
 170 gm of Methyl magnesium Bromide with 13 gm of
 Ethyne at STP.



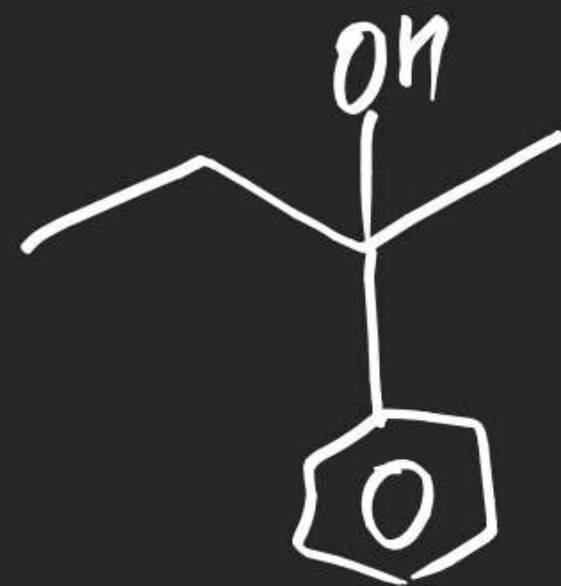




Formaldehyde

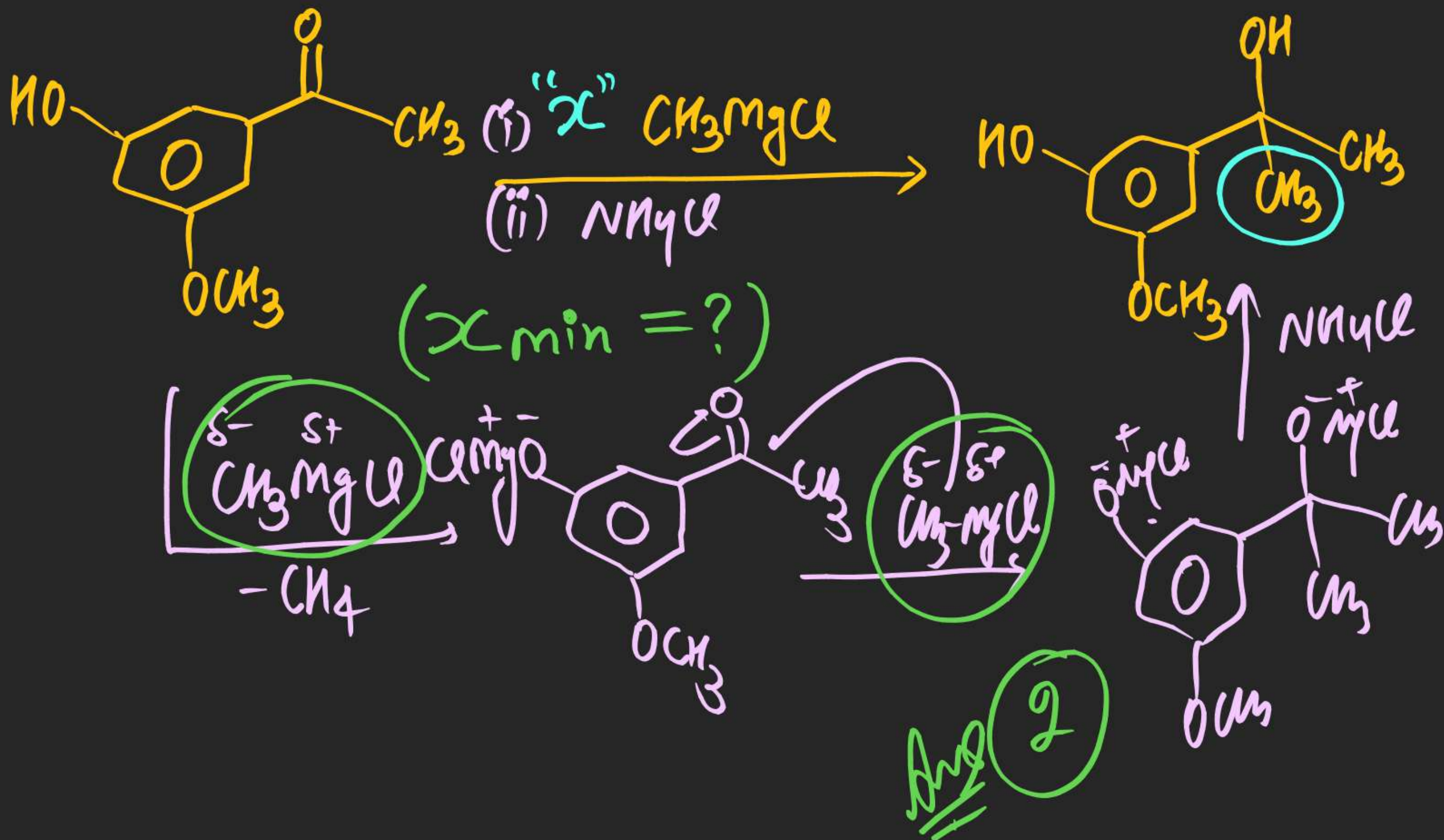
Note! (x) Ketone $\xrightarrow{G.R.}$ 3° R-on
 Aldehyde $\xrightarrow{''}$ 2° R-on
Except $H-\overset{\overset{O}{\parallel}}{C}-H \xrightarrow{''}$ 1° R-on

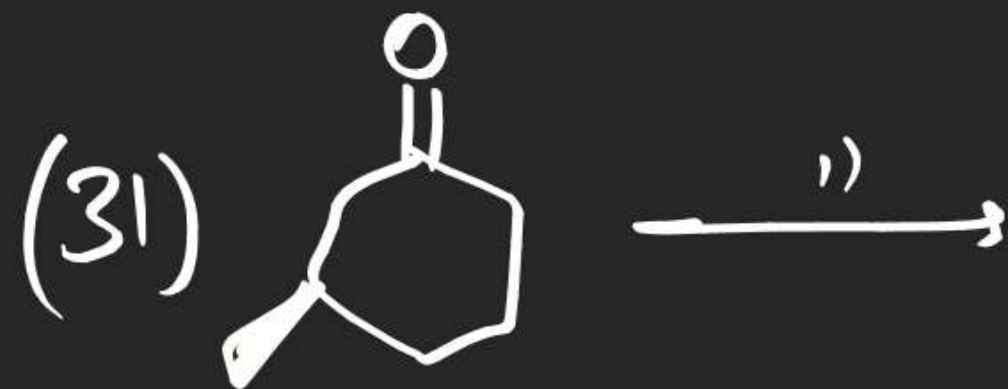
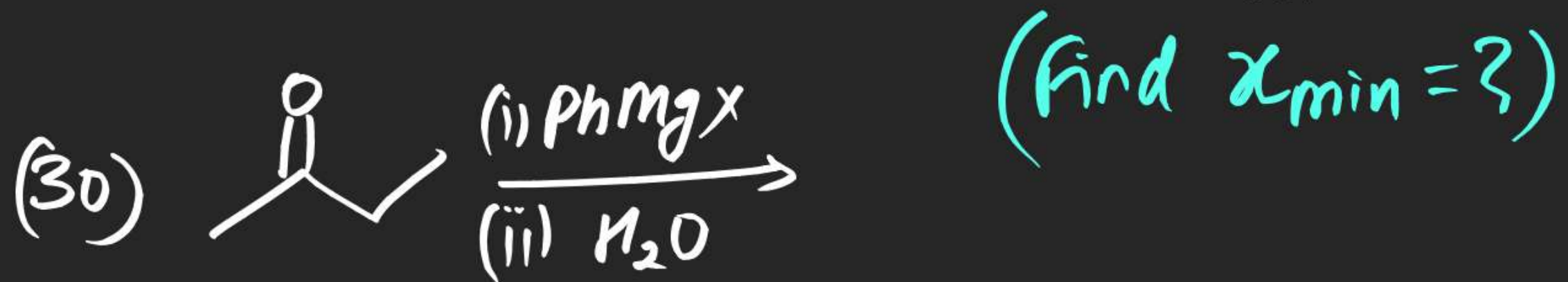
(26) Carbonyl Comp + $G.R.$ $\xrightarrow{(ii) NH_4Cl}$



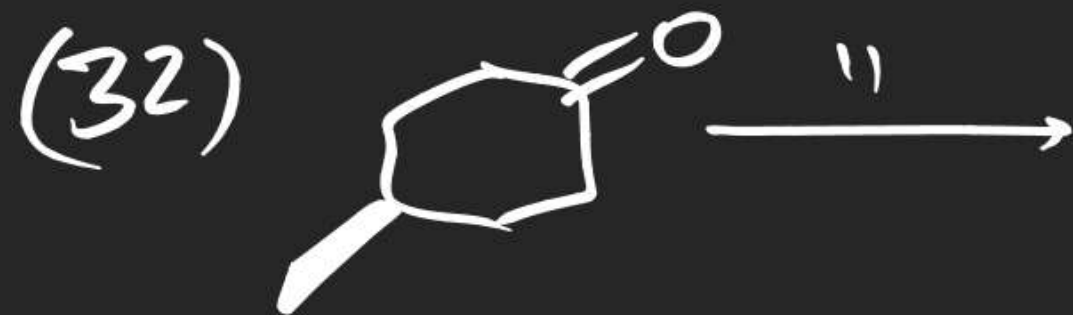
(27) ? + ? $\xrightarrow{(ii) ''}$

(28)

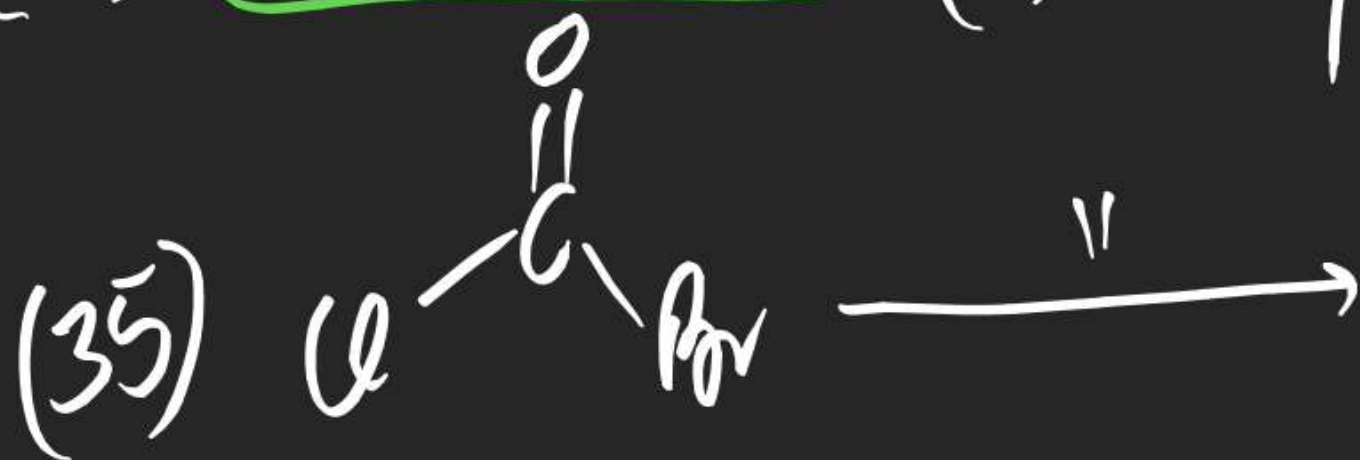
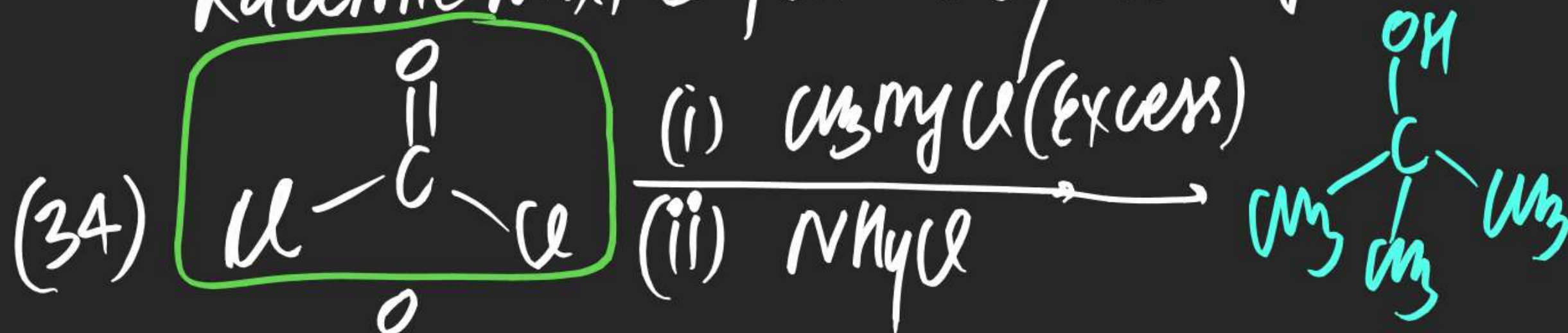


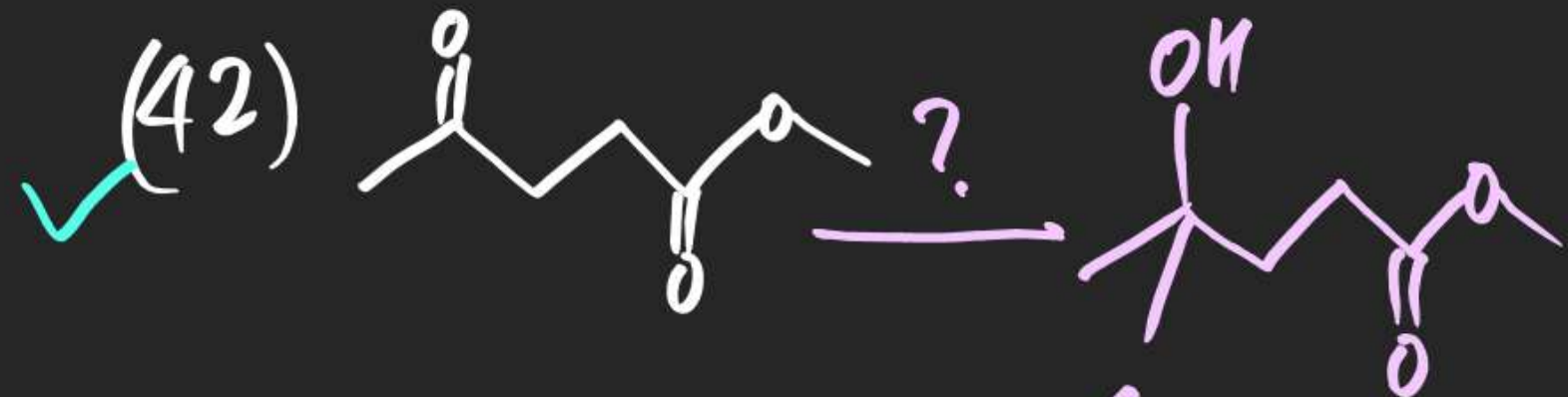
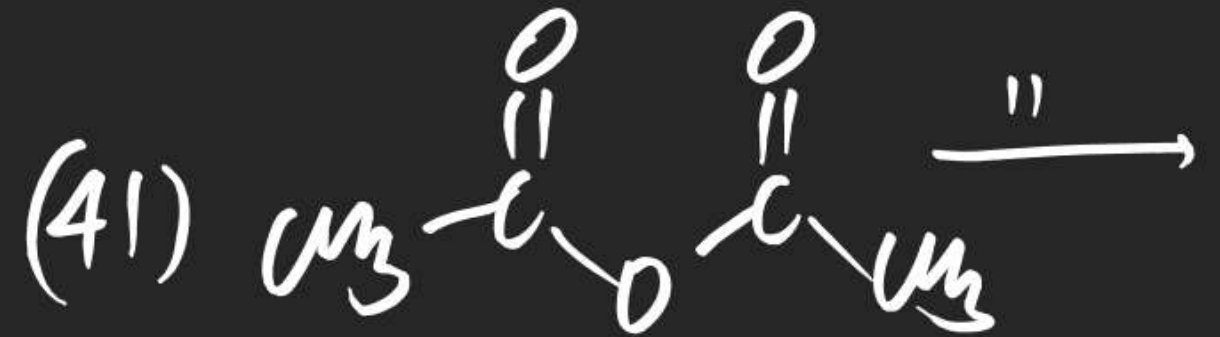
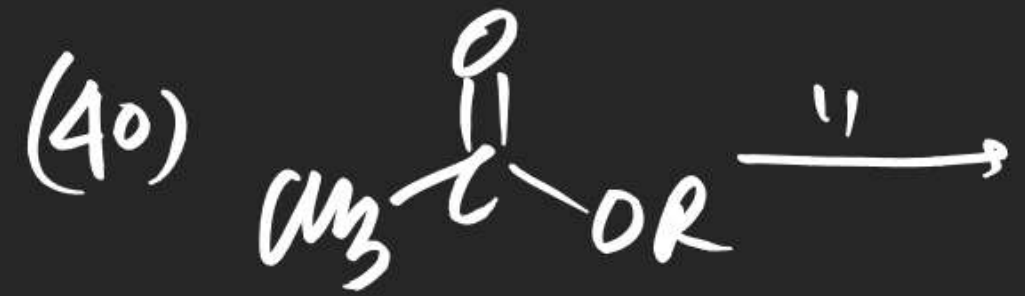
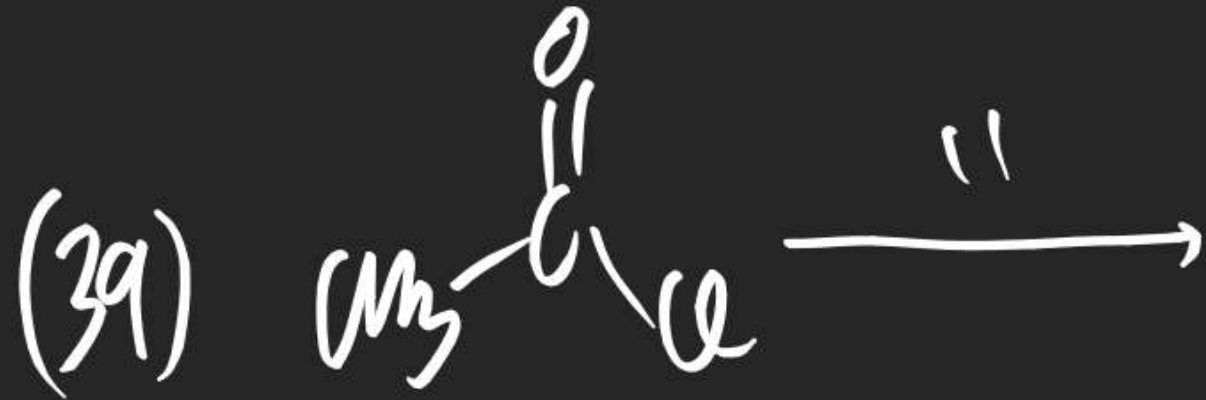
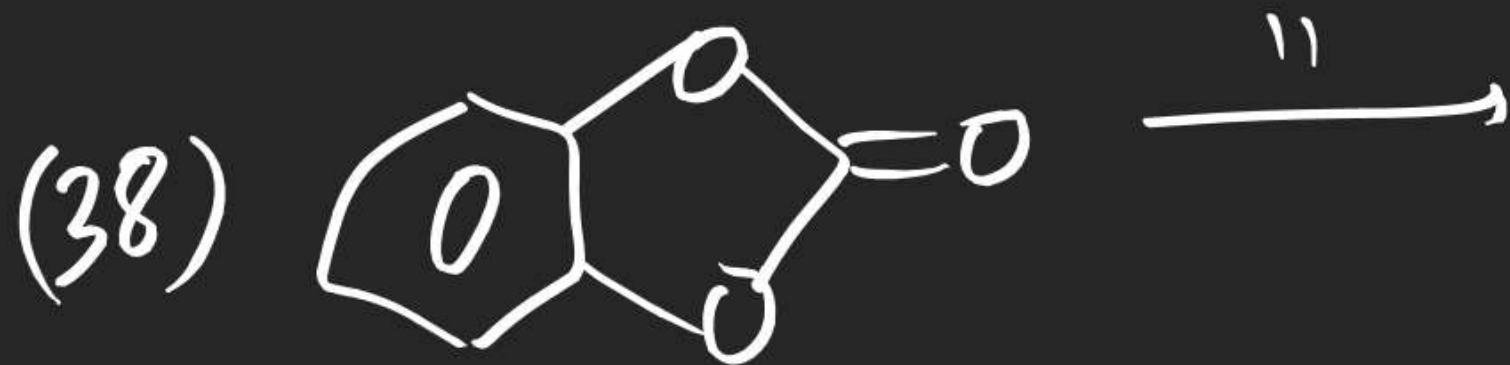
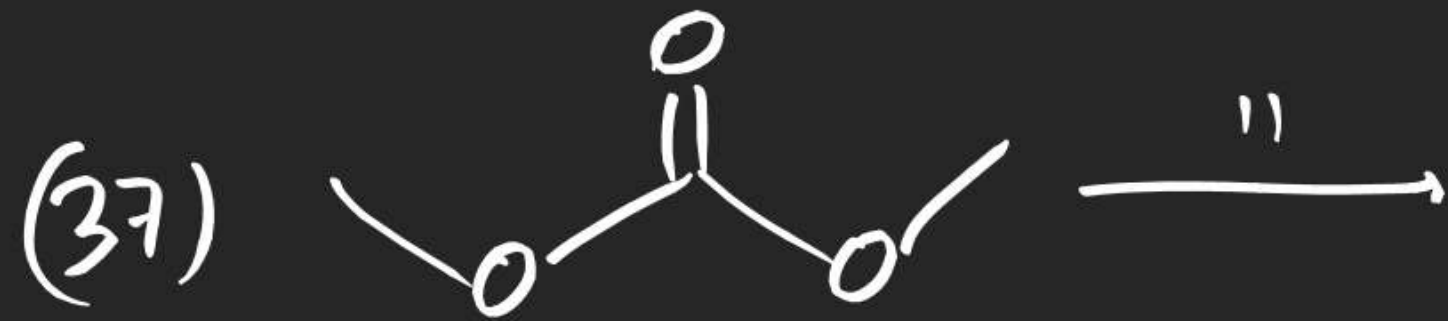


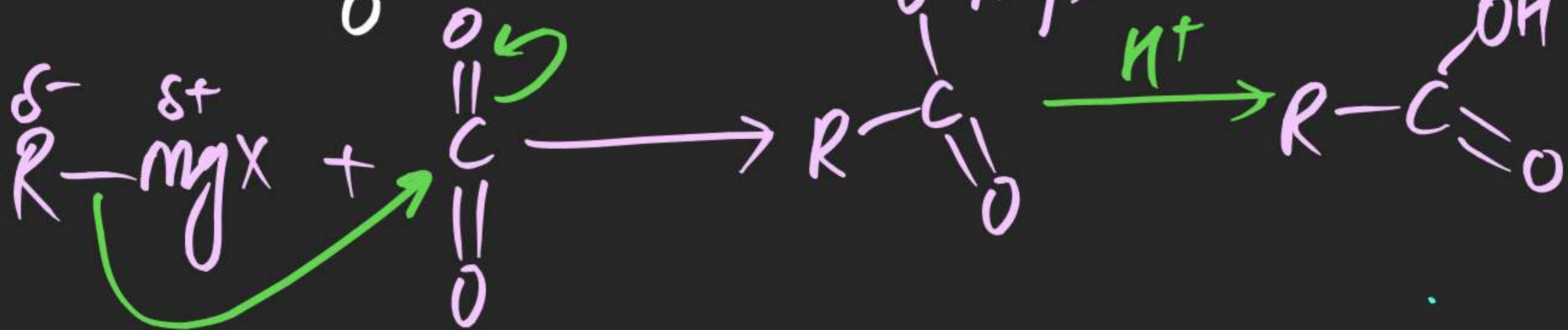
(Find $x_{\min} = ?$)

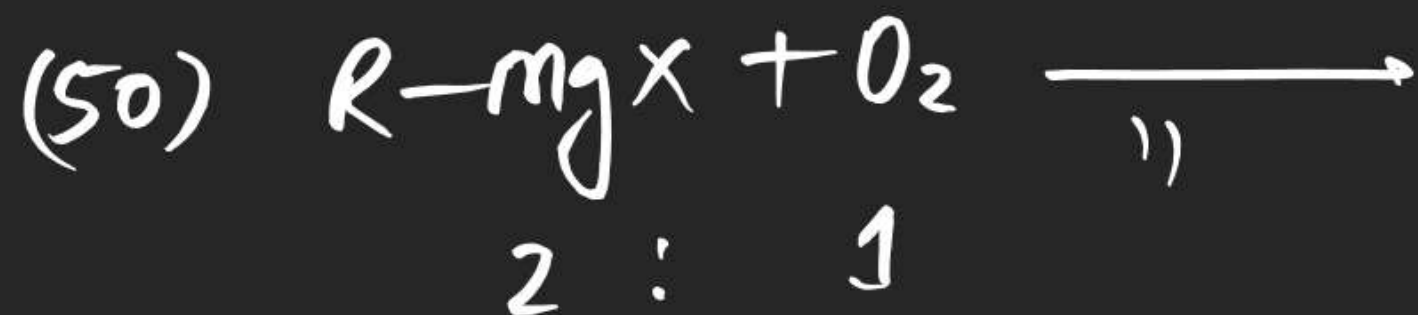


(33) Total No. of Carbonyl Compounds with mol. formula $C_6H_{12}O$ which on Rxn with Et_3N/Cl_2 gives Racemic mixture followed by Acidification.

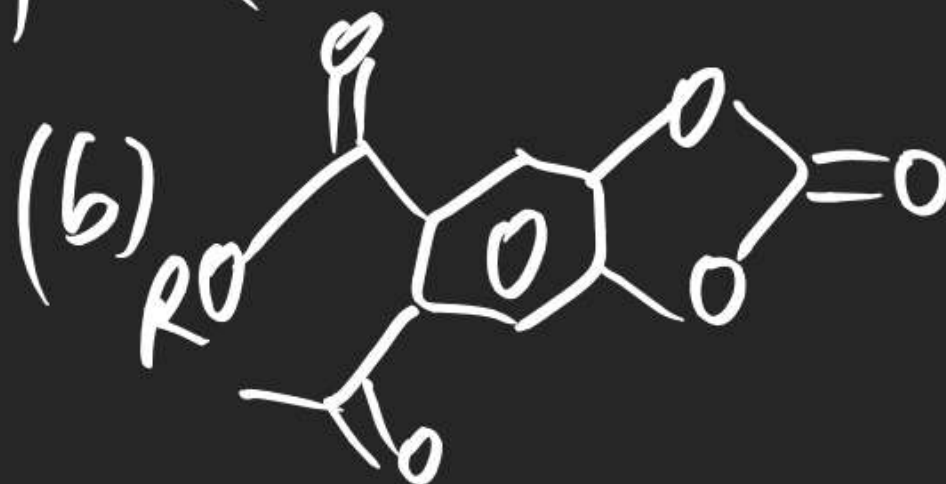
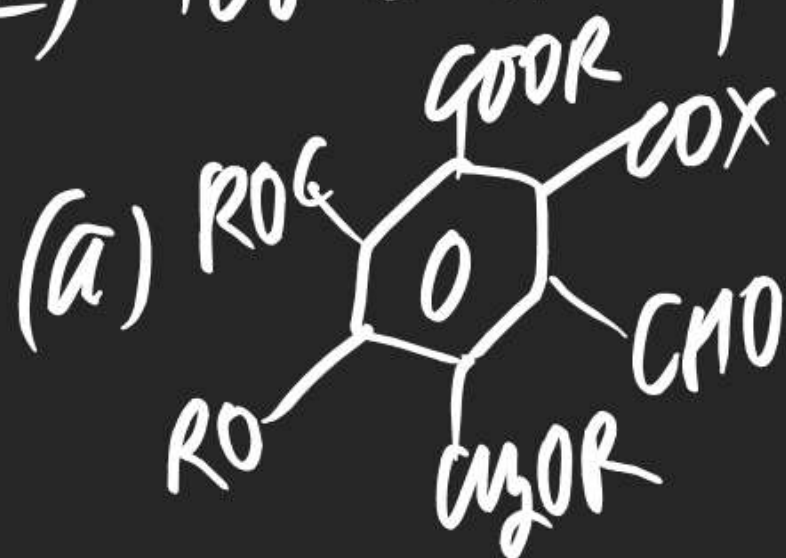




m.m.Twp:mechⁿ:

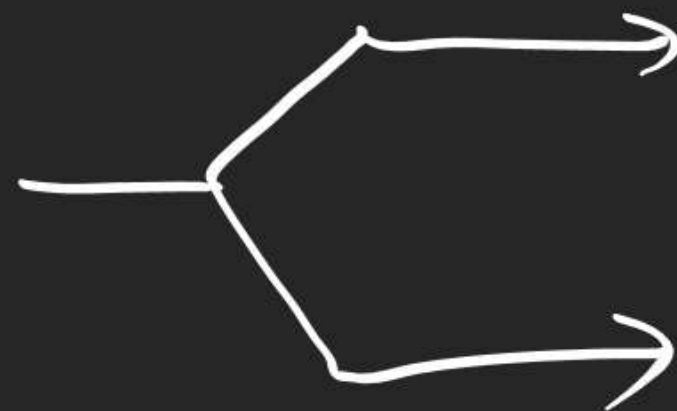
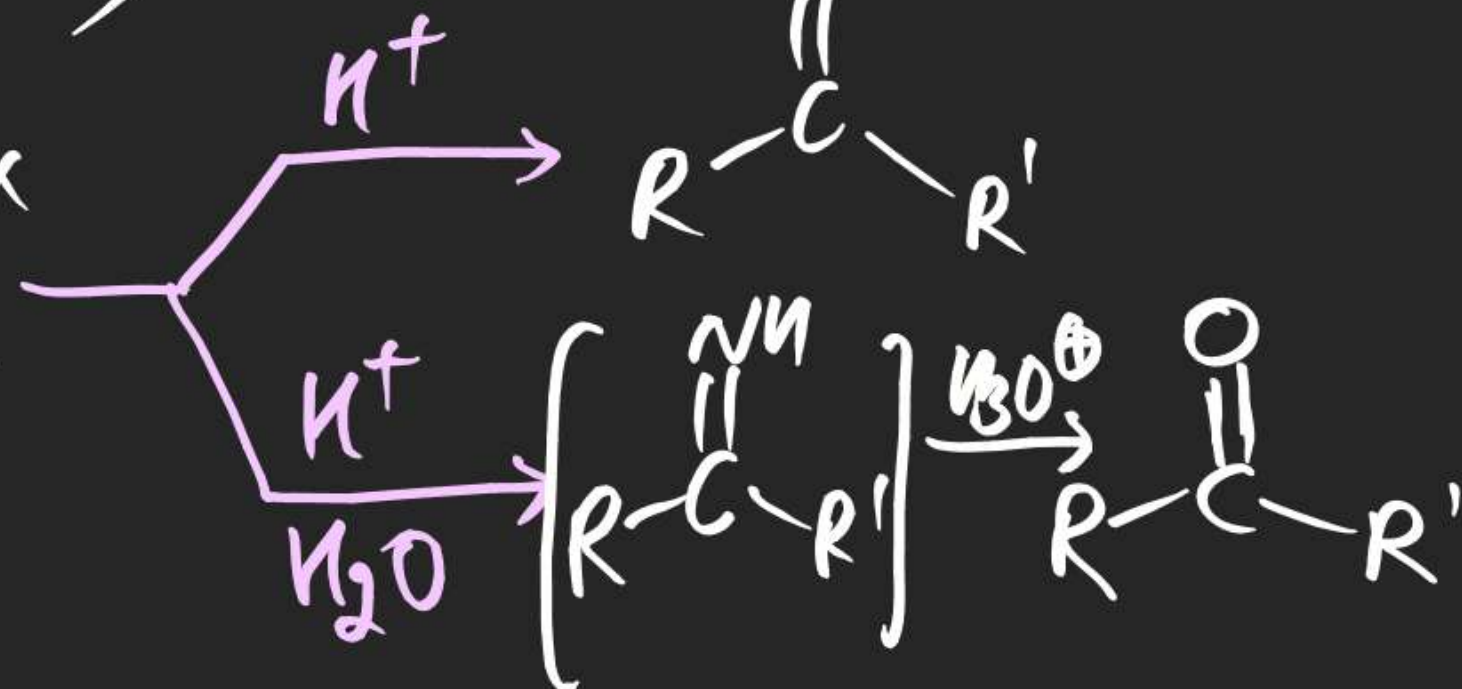
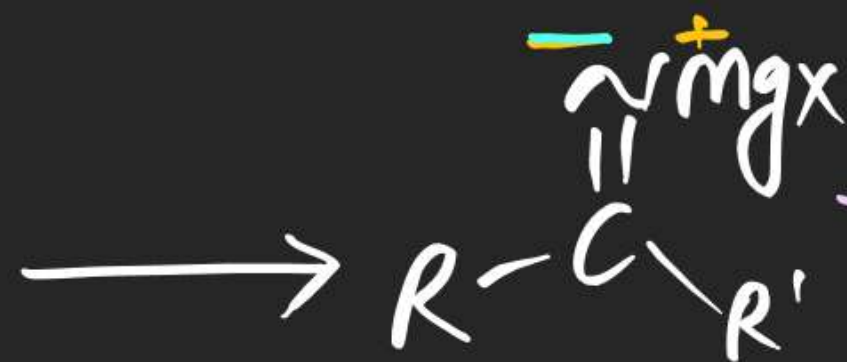


(51) Total no. of moles of G.R. consumed per mole of following

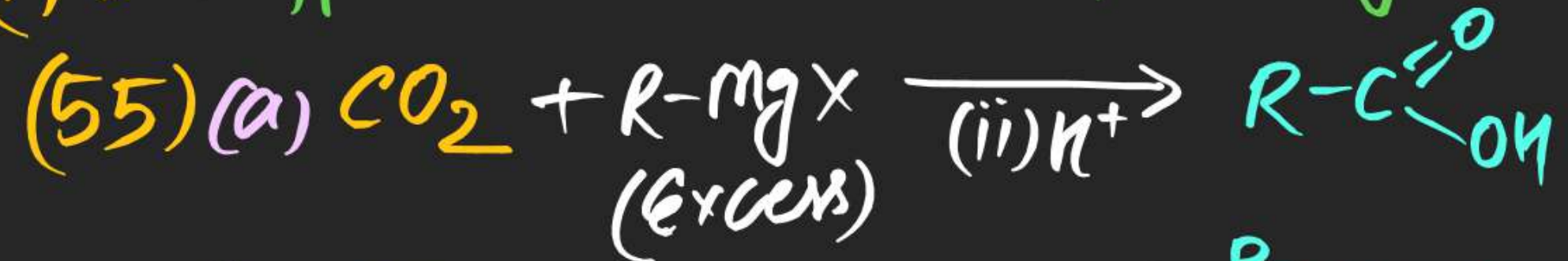


Rxn of AR with R-CN:-

(52)

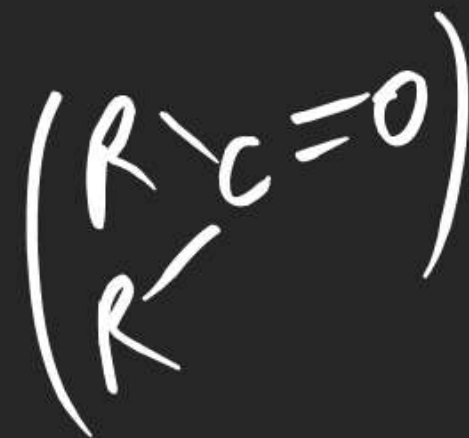
mechⁿ

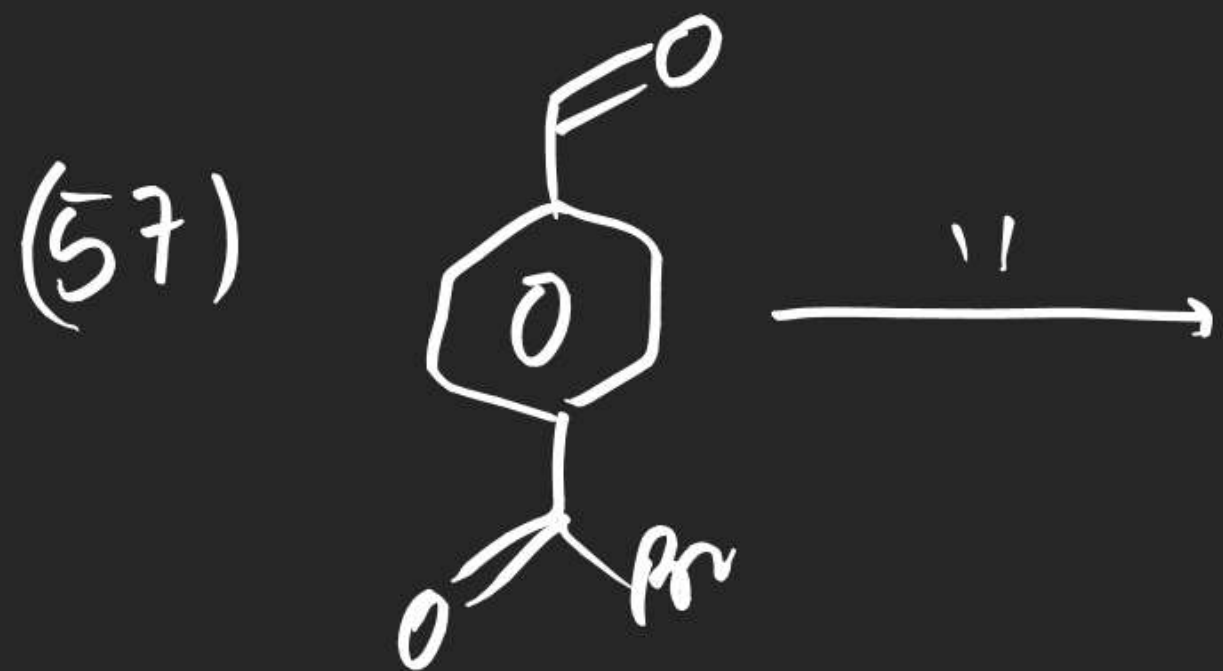
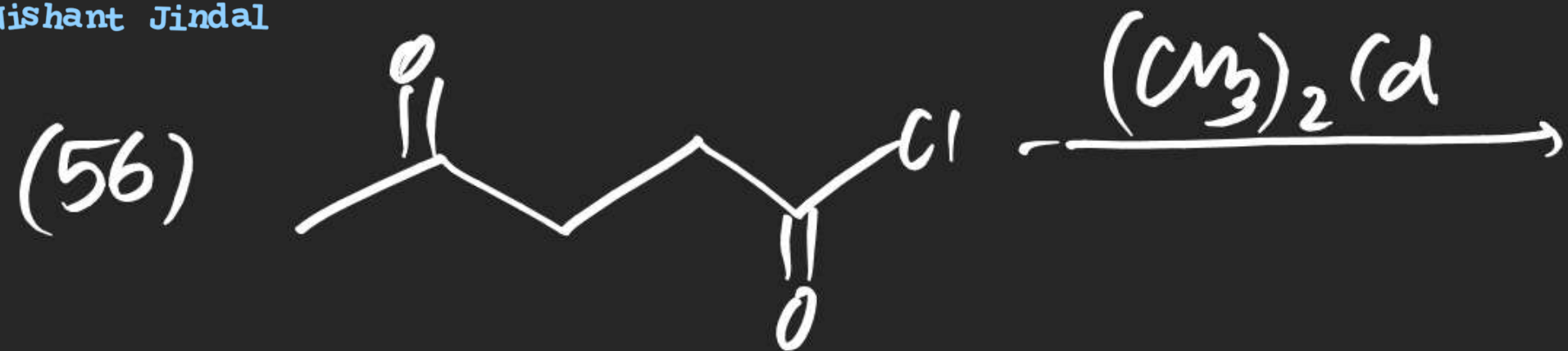
(#) difference b/w Reactivity of $R-MgX$ & RLi

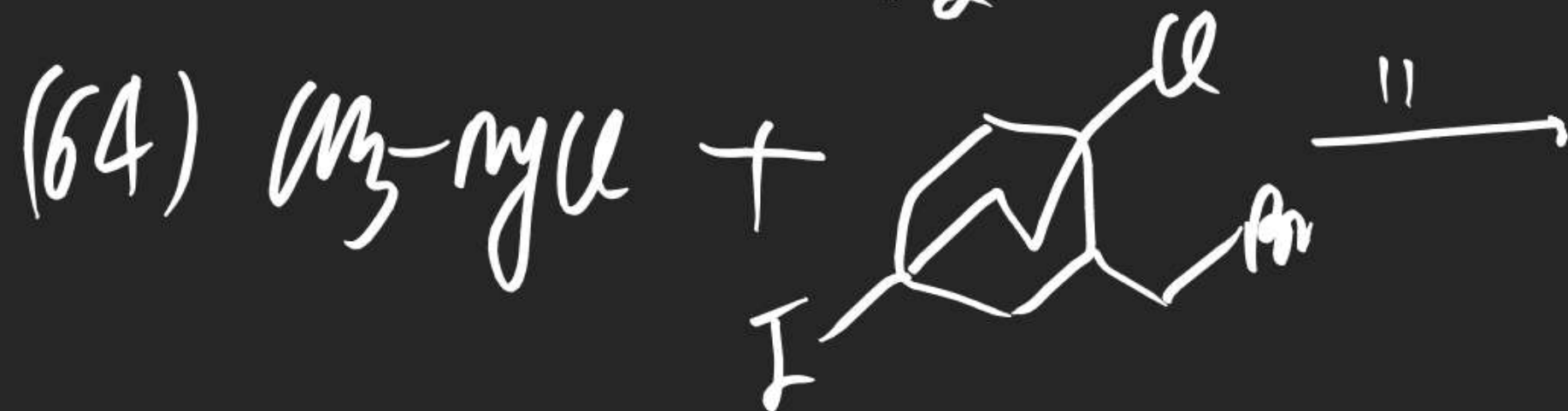


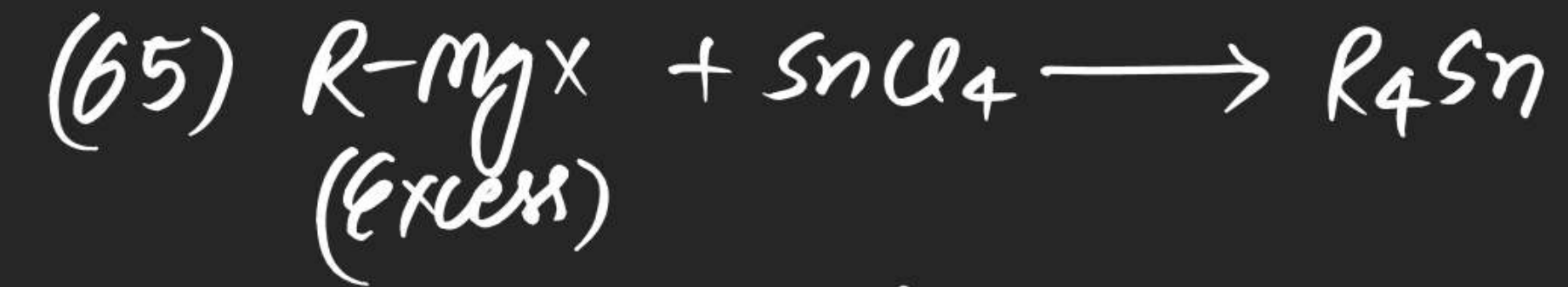
Note

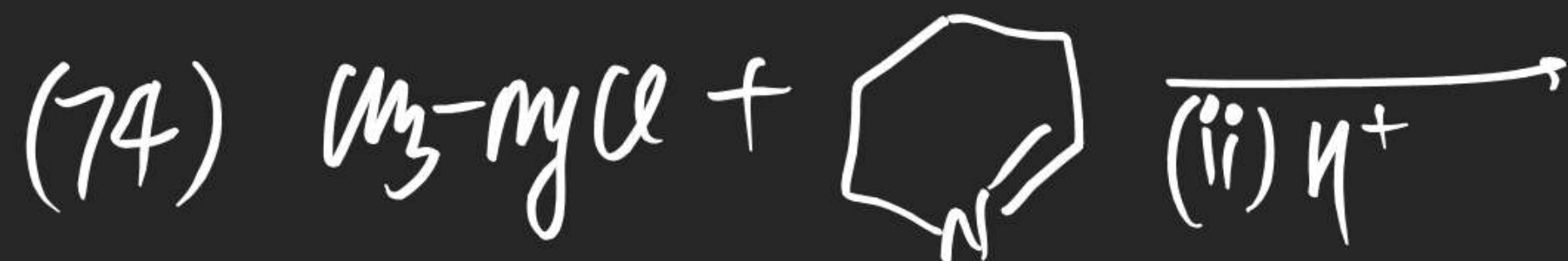
R_2Cd is less reactive & reacts only with Acid halide.











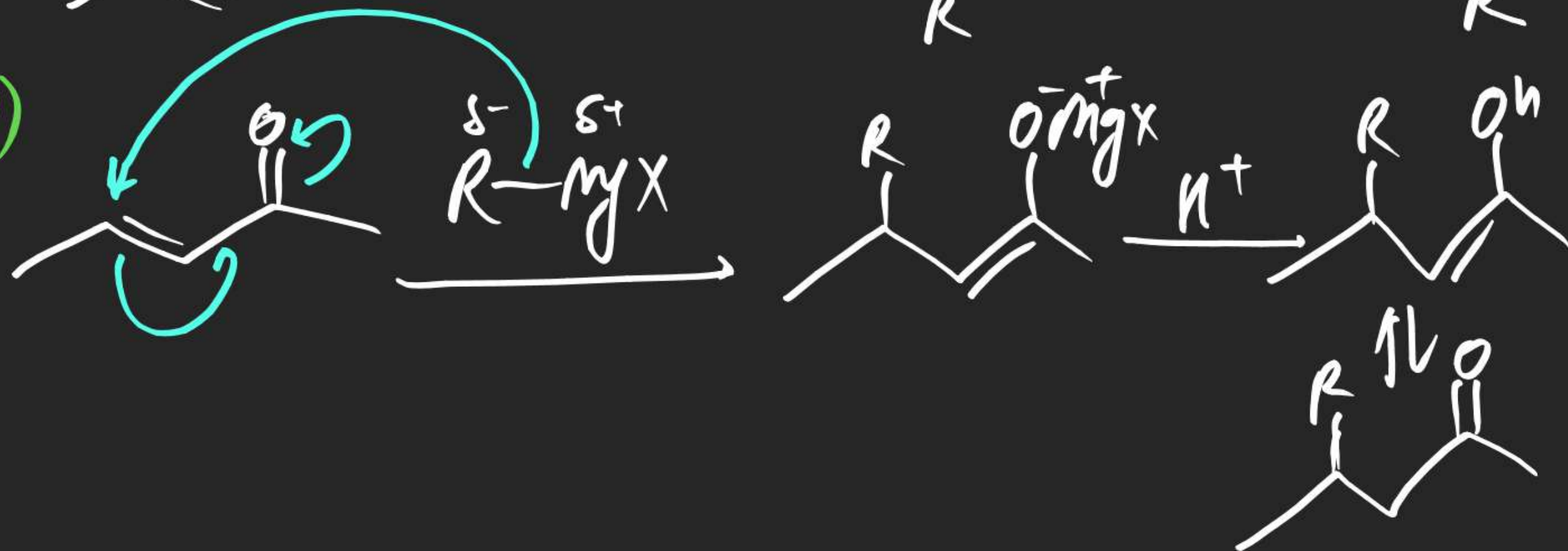
(#) Conjugate addn of GR:

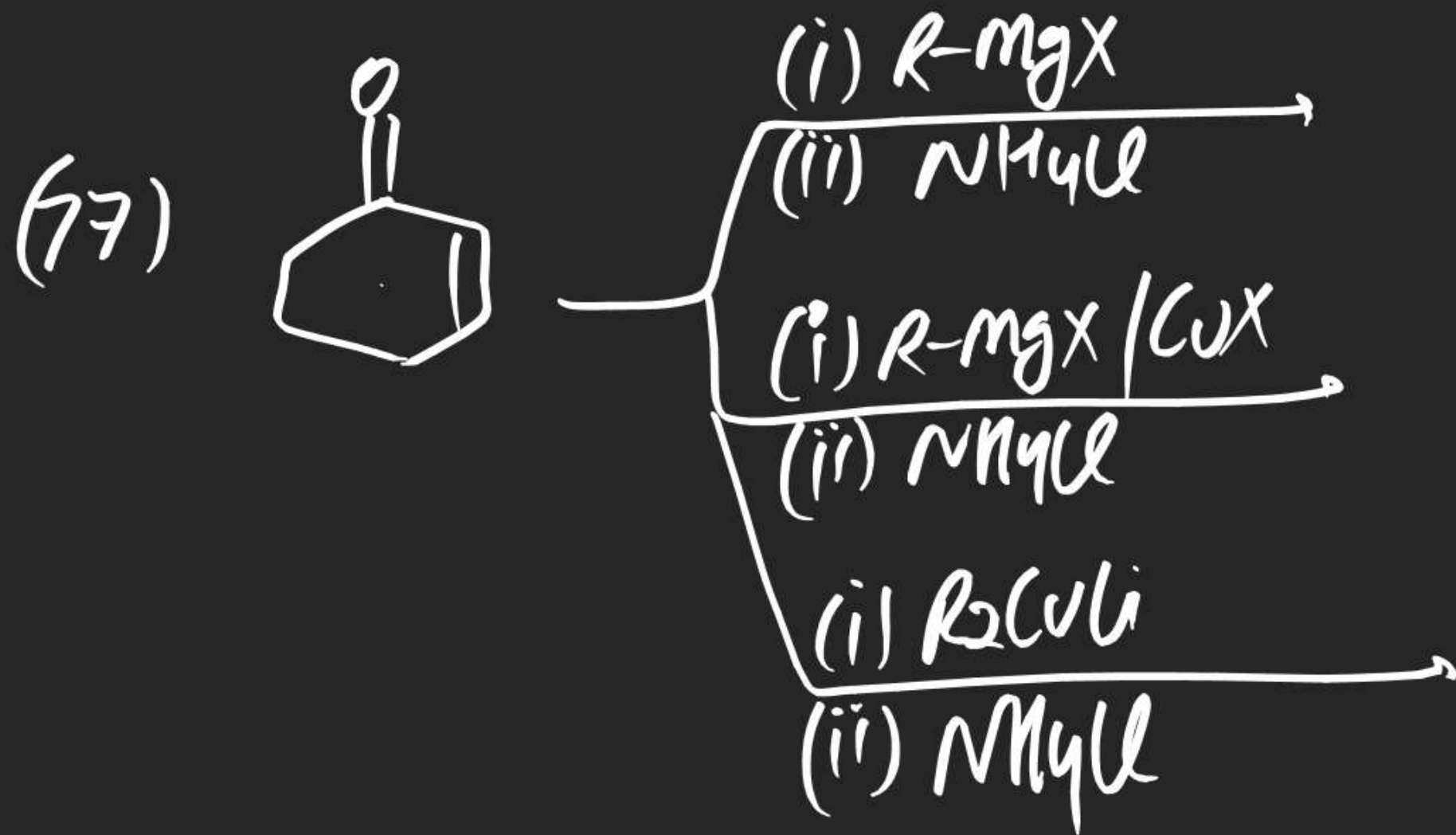


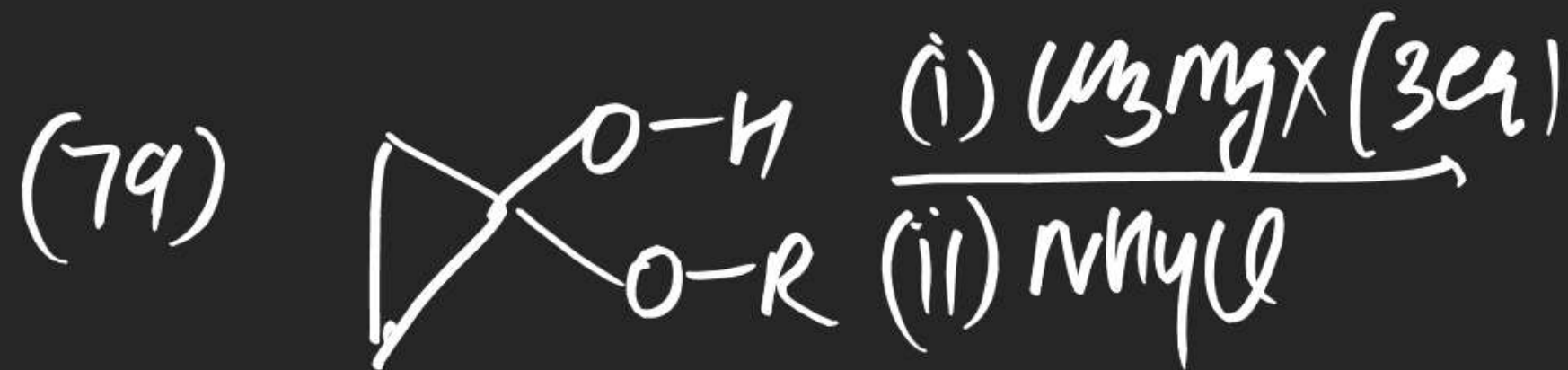
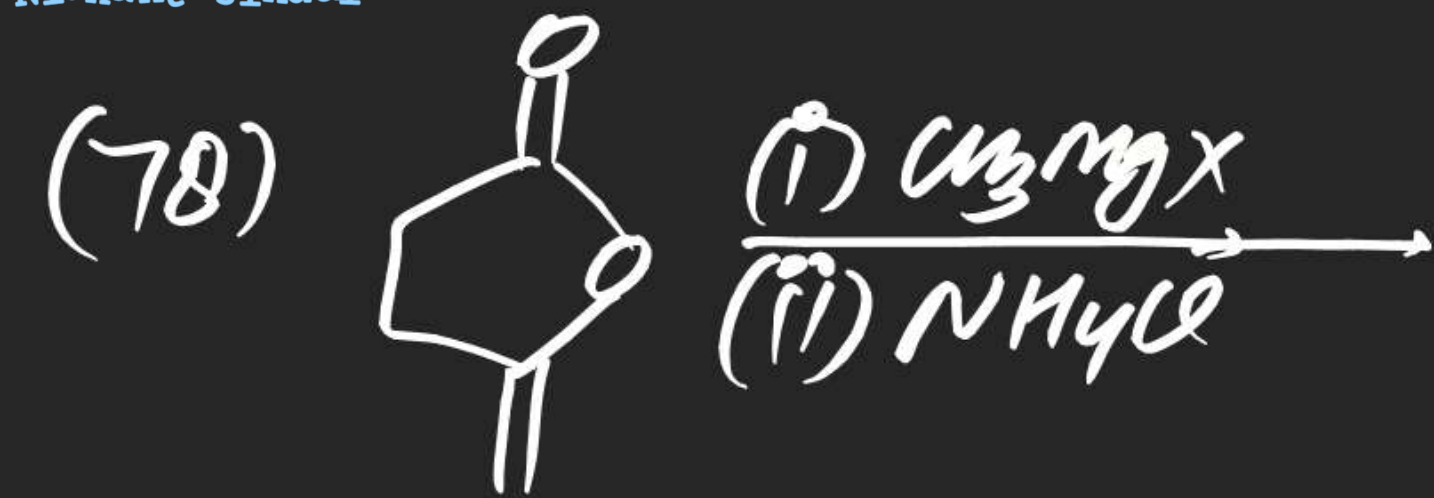
Soln: (1,2 addn)



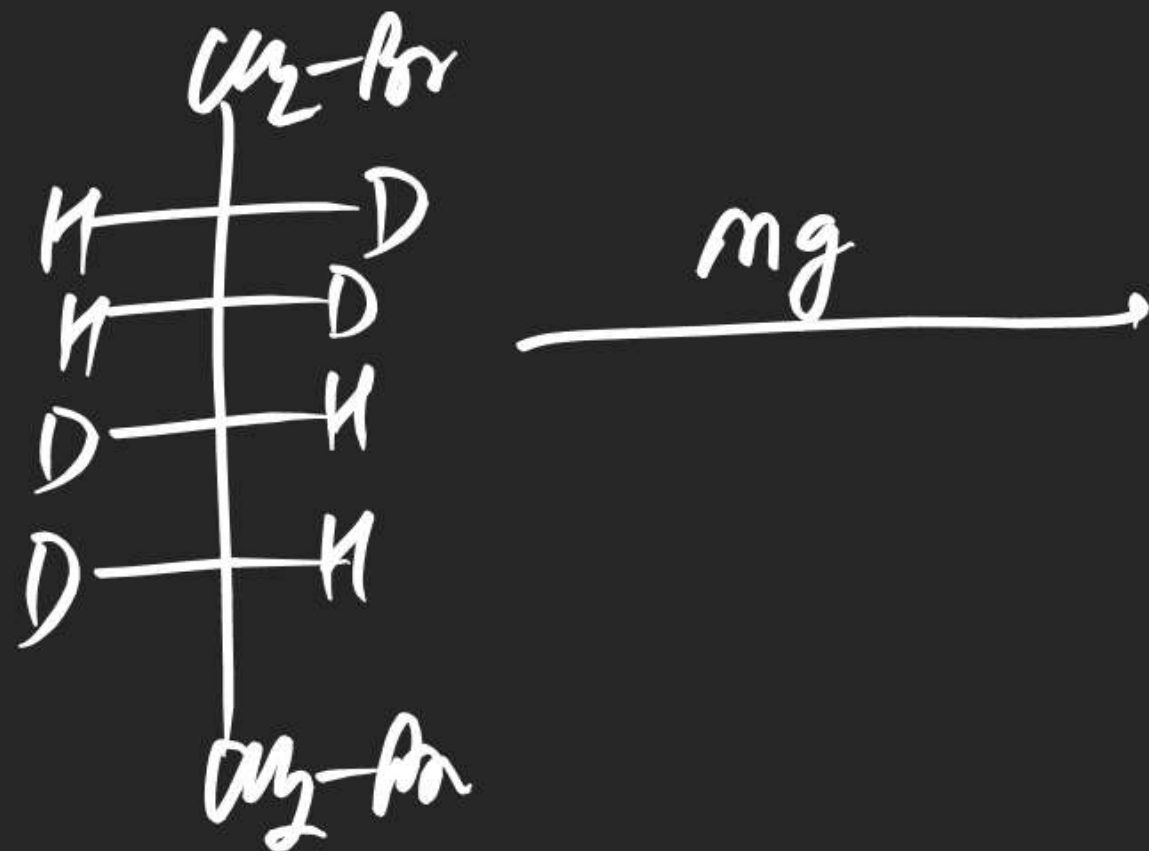
(1,4 addn)







(84)



(85)

