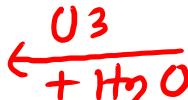
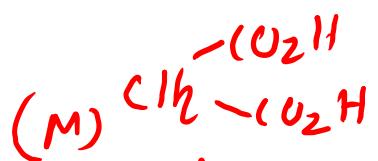
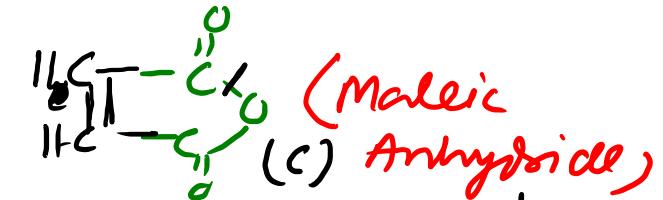
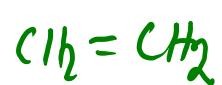
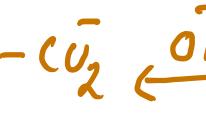
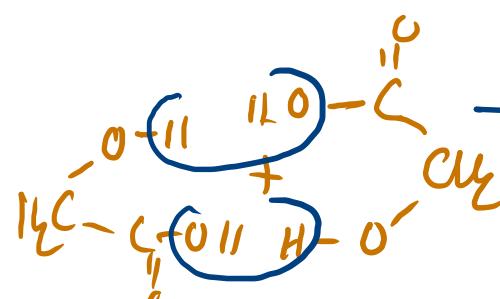
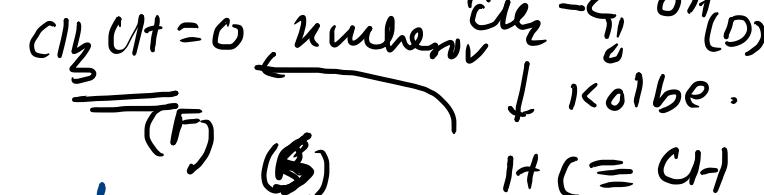
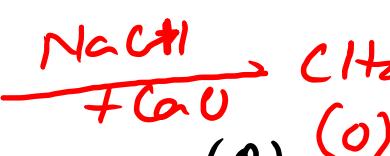
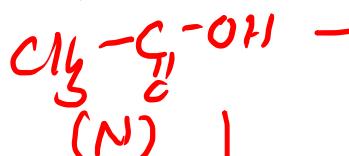


Road Map - Q7



Birch

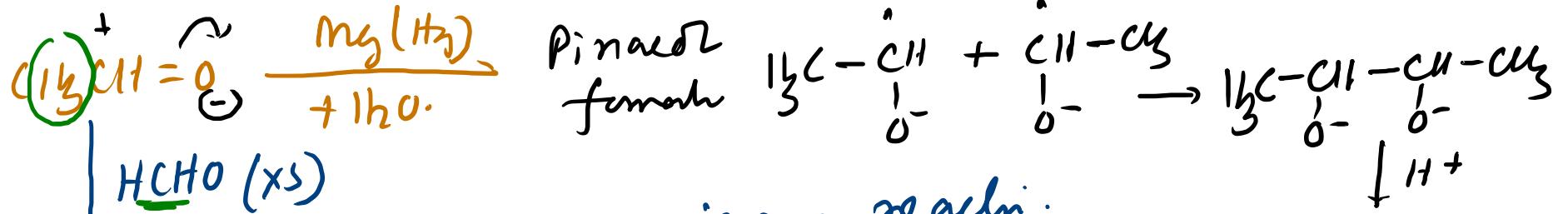


$\alpha$ -hydroxy acid.

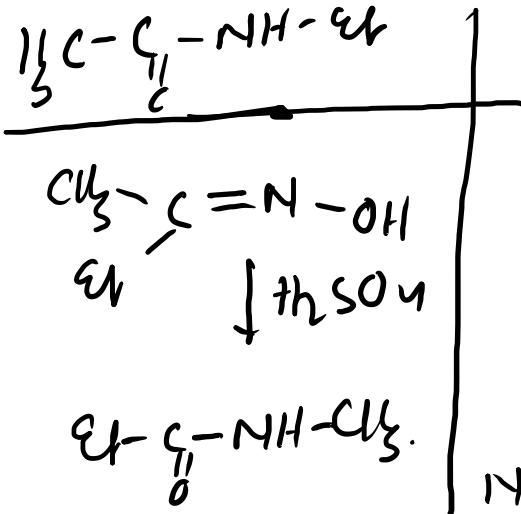
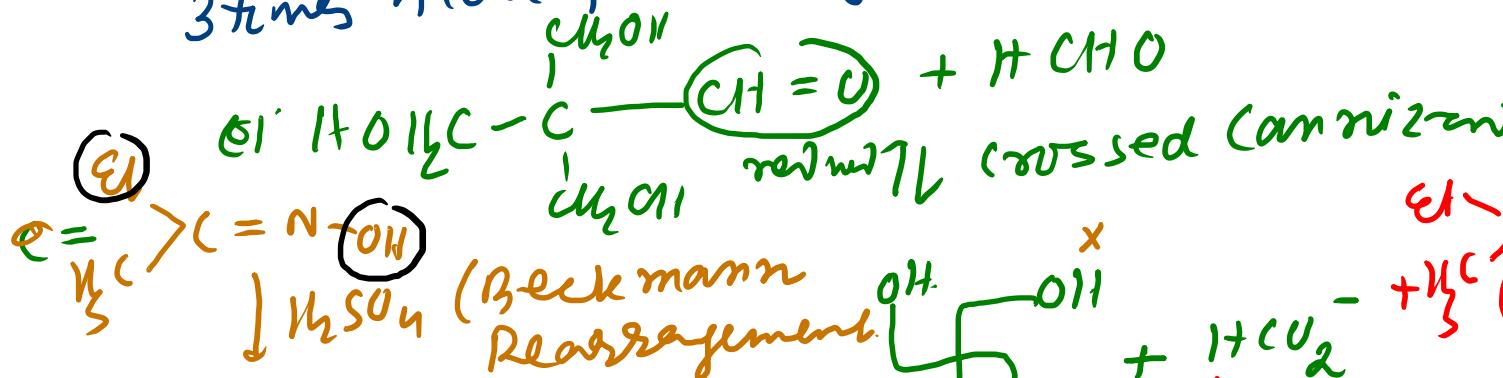


Glyoxal

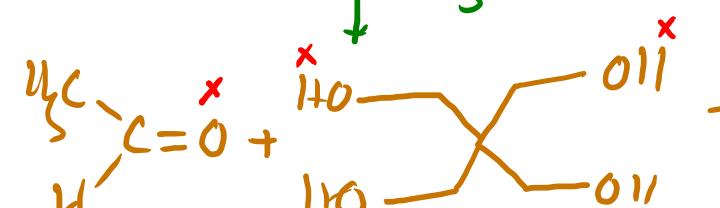




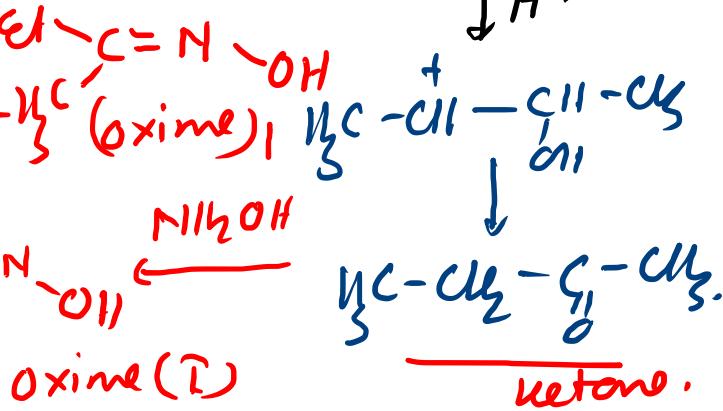
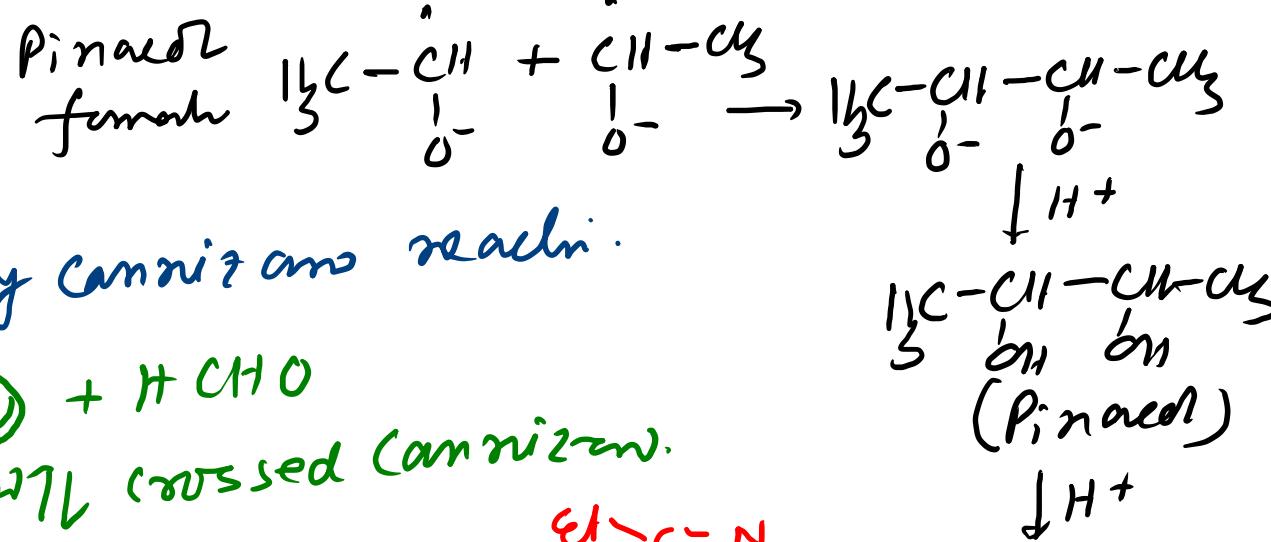
3 times Aldol followed by Cannizzaro reacn.



Protecting carbonyl



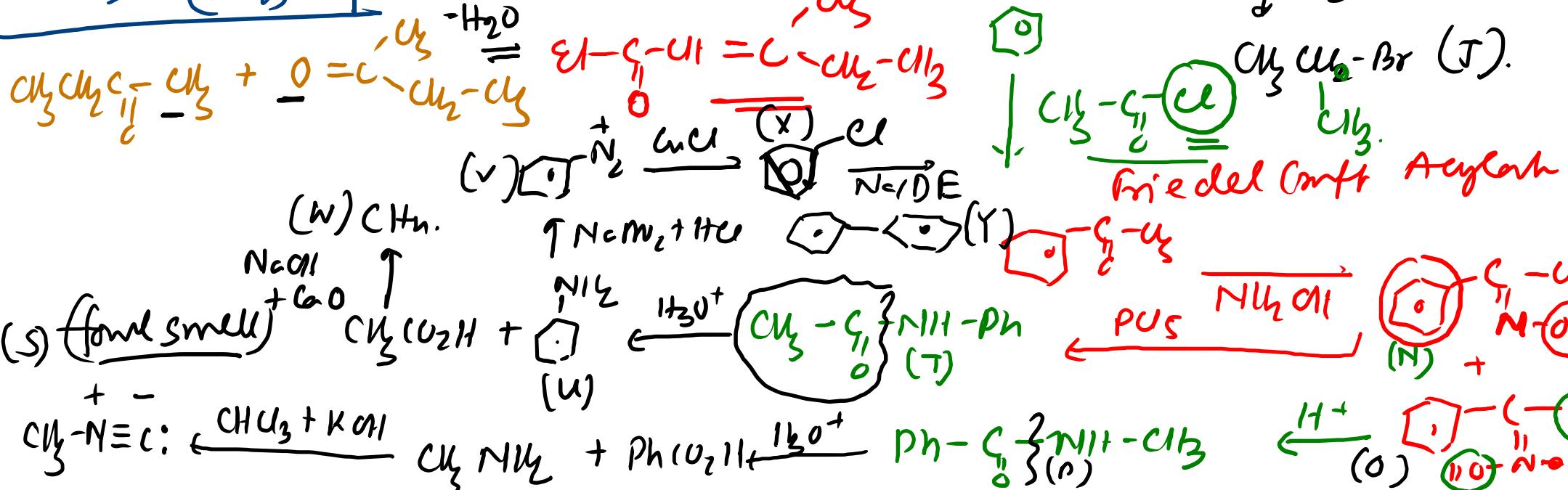
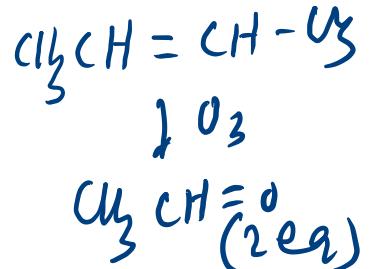
N-alkyl substituted amide



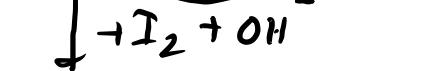
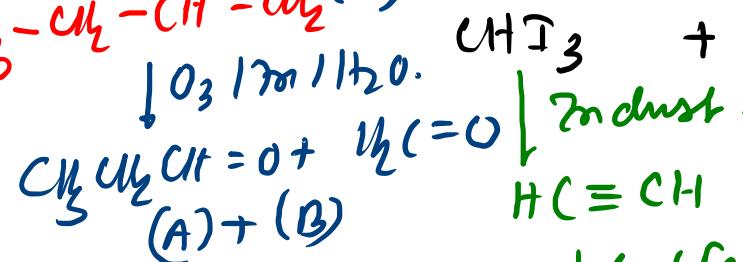
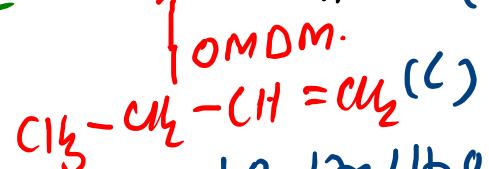
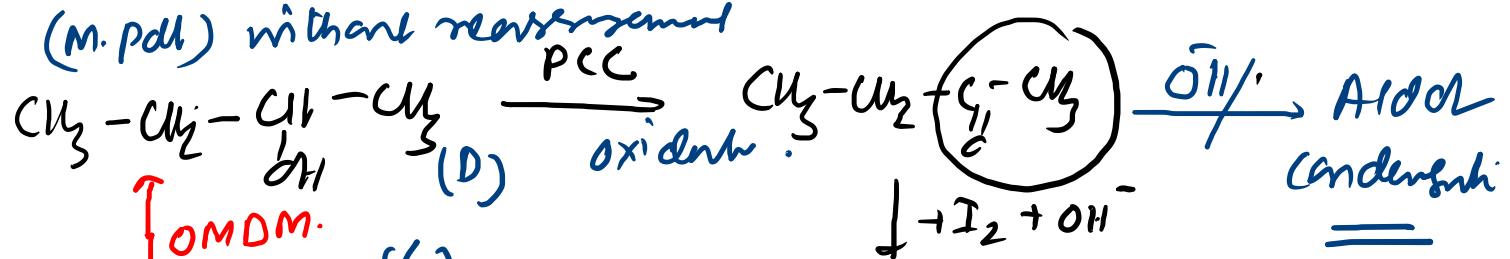
Ketone.

Oxime  $\rightarrow$  N-alkyl substituted amide.

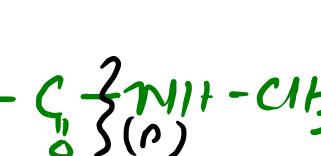
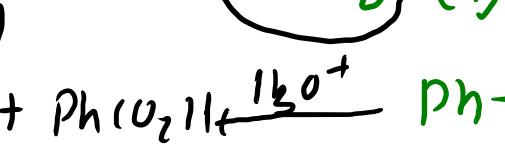
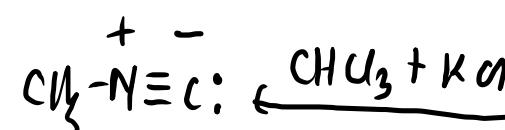
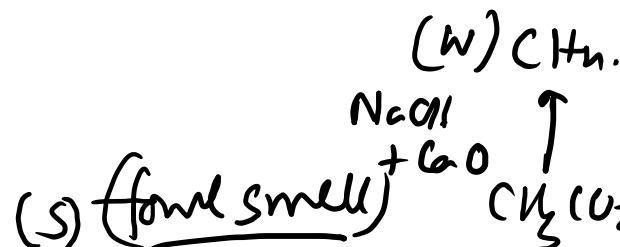
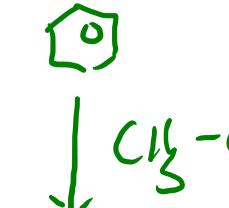
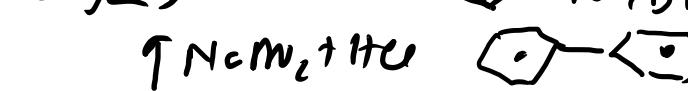
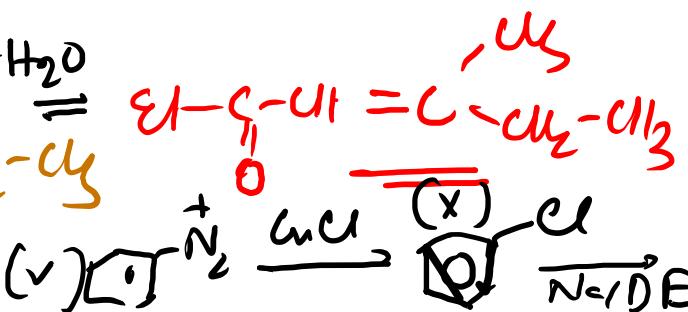
## Road map-8

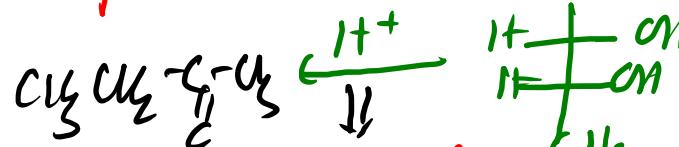
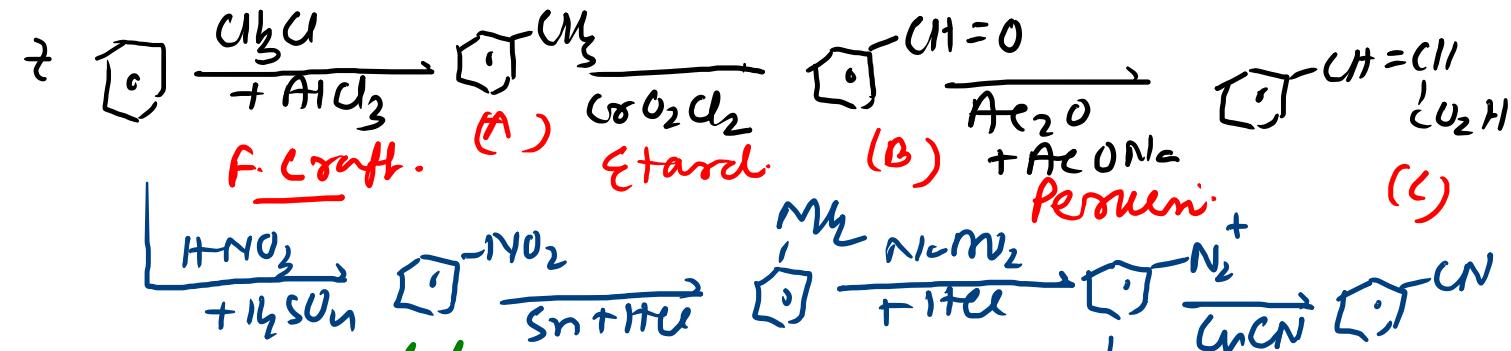
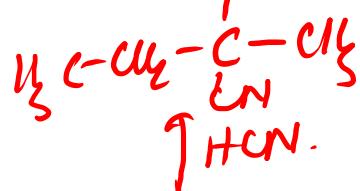
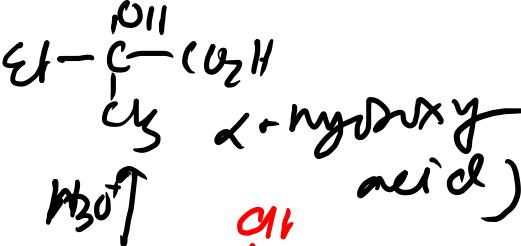


(M. pdl) without reassignment  
*BCC*



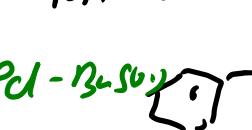
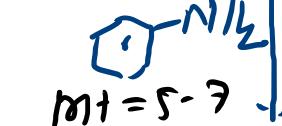
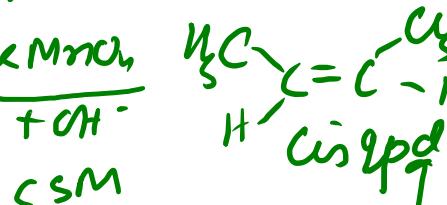
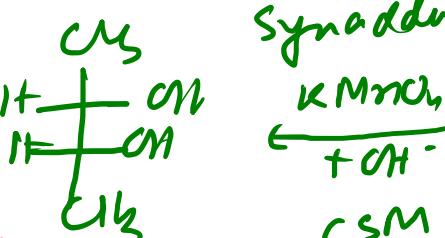
## Friedel-Crafts Acylation



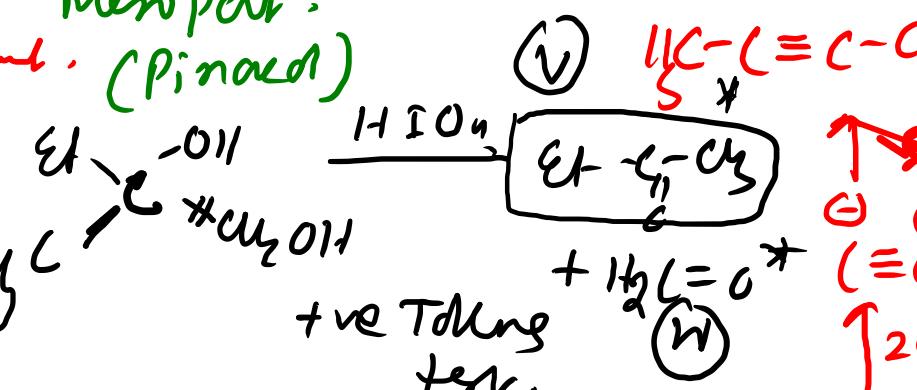
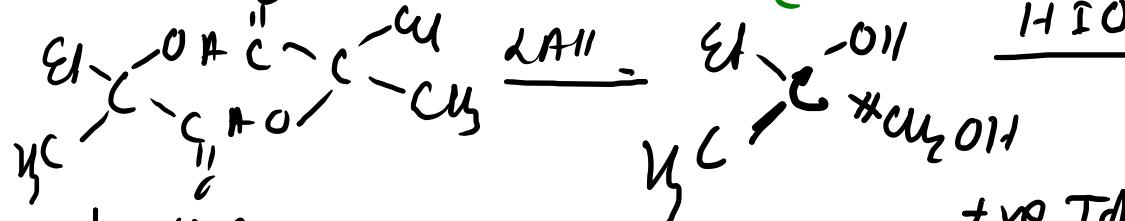


- Pinacolone rearrangement.

new pdt. (Pinacol)



yellow color dye.



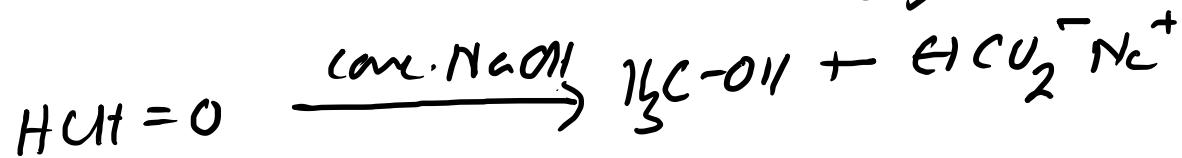
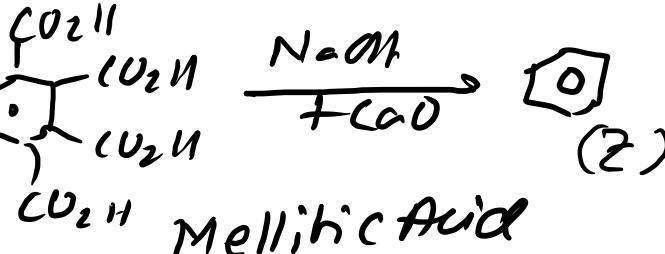
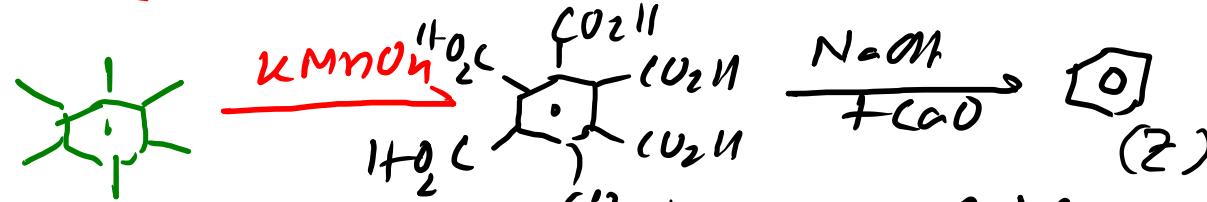
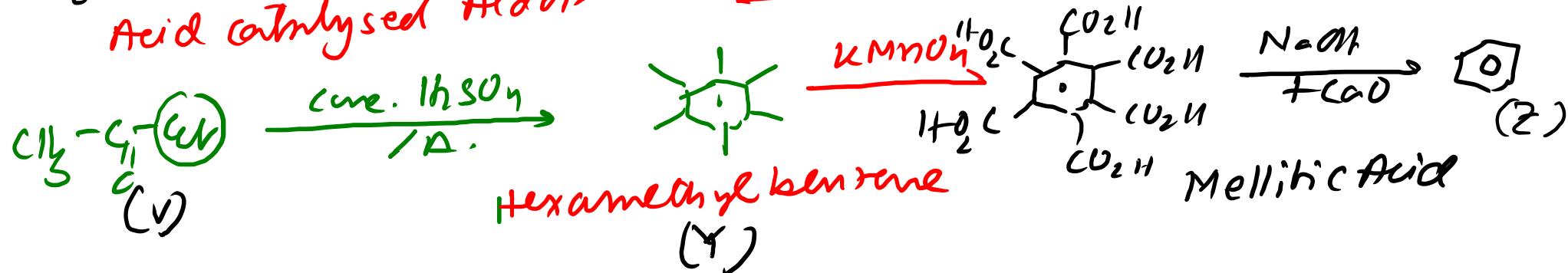
w Crystall dehyde.

$\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\overset{\text{OH}}{\underset{\text{C}}{\text{C}}}-\text{H}$   
 Aldol. Acetyl dehyde

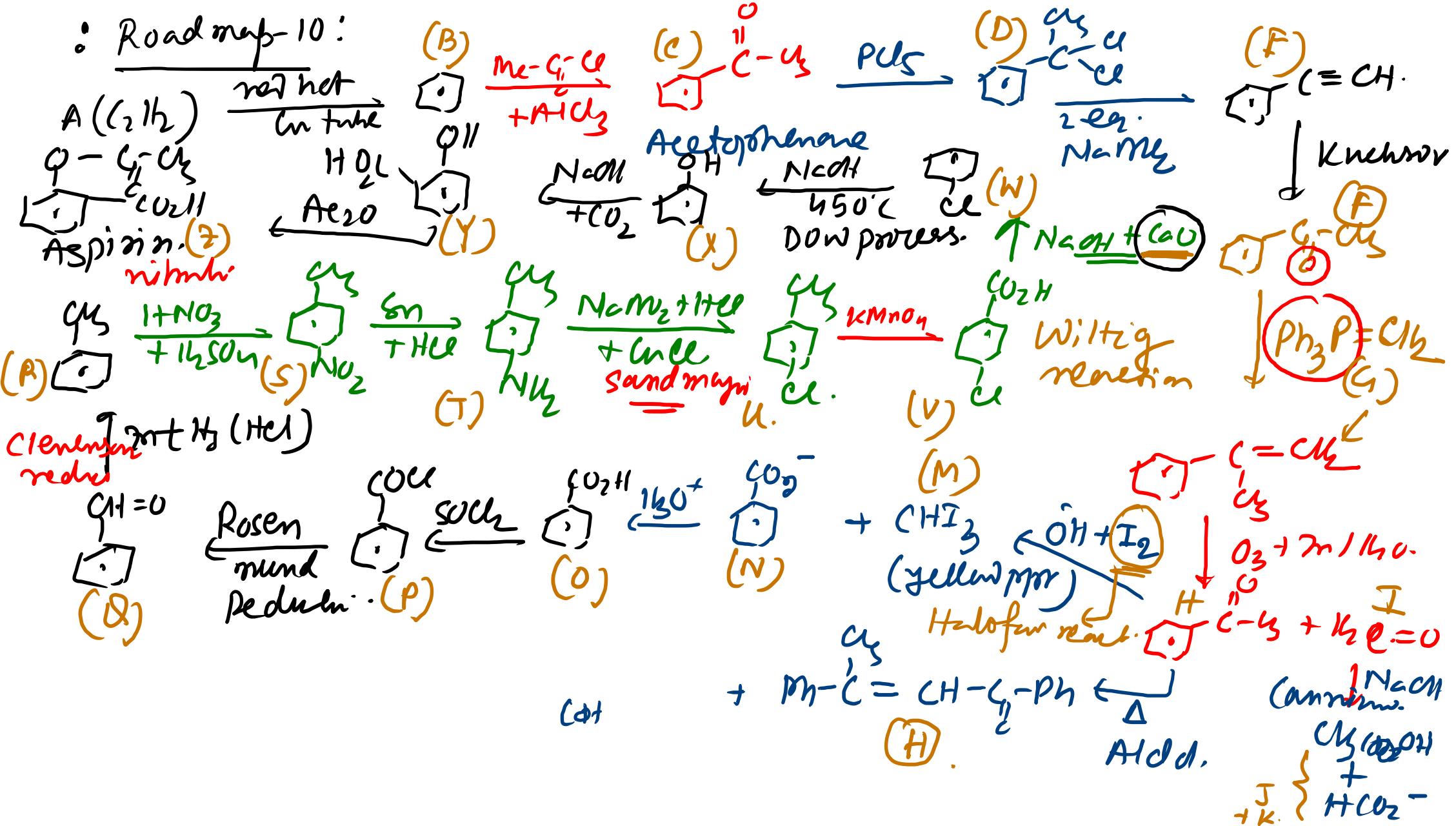
$\xleftarrow{\text{Kuehne.}}$   $\text{H}\text{C}\equiv\text{CH} \xleftarrow{+6\text{Ag}} \text{CH}_3\text{C}_2\text{H}_5 + \text{C}_2\text{H}_5\text{N}^+$   
 Acetyne preparat.



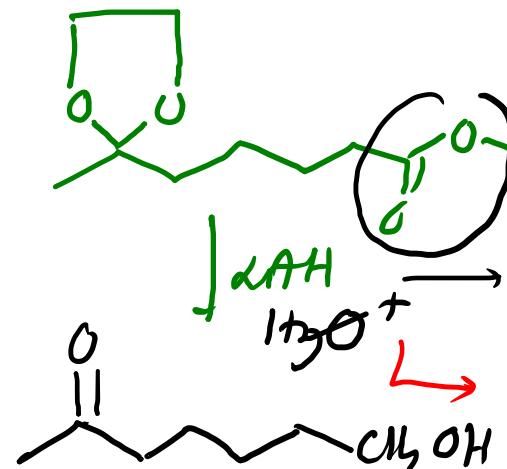
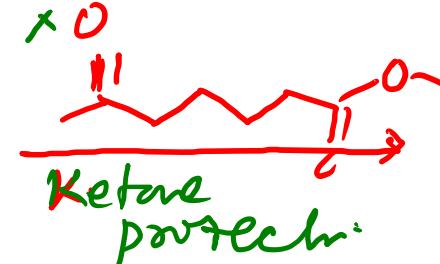
Acid catalysed Add.



: Road map - 10:



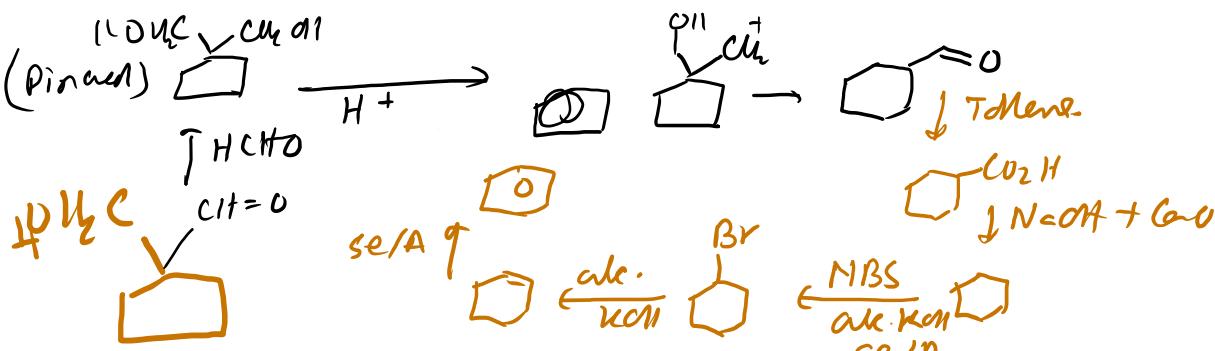
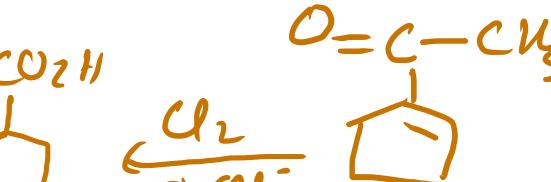
Roadmap - 6:



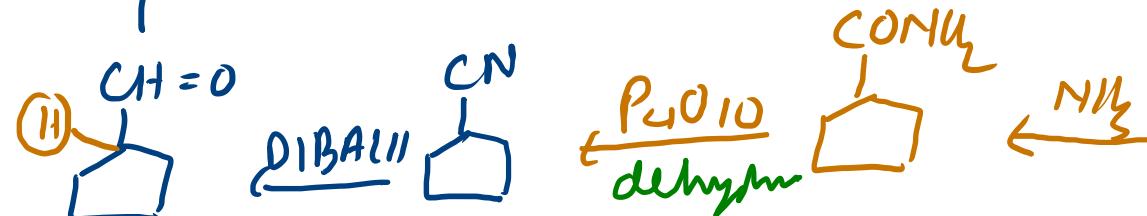
is used for ester synthesis.

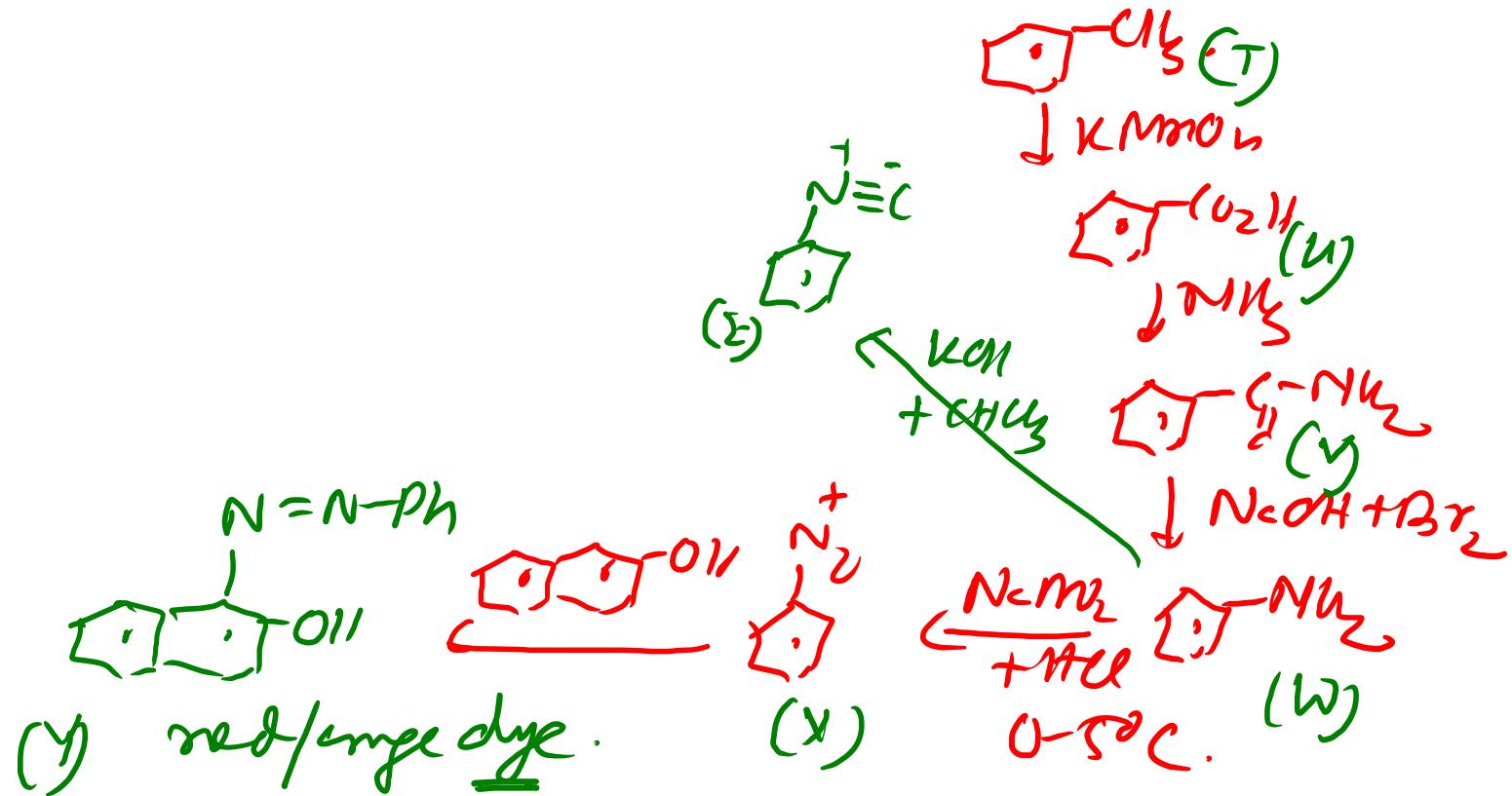
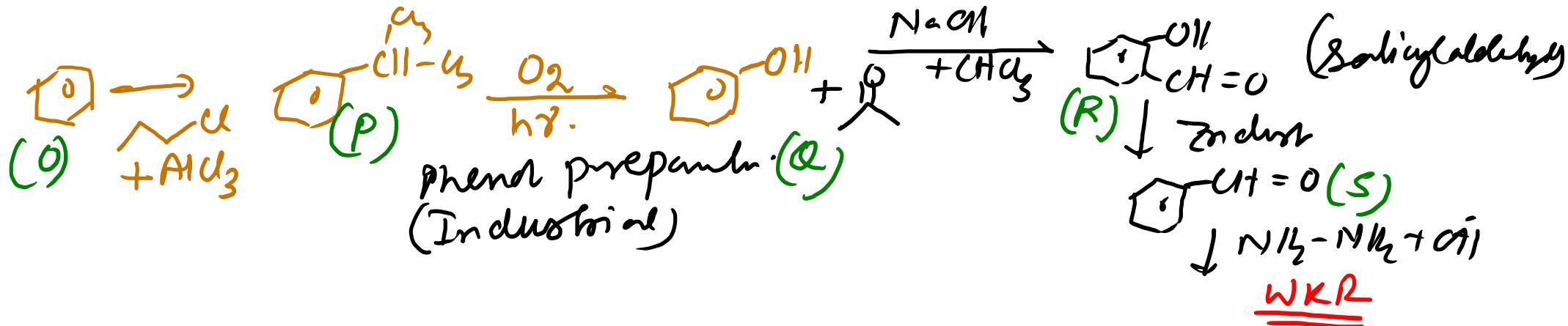


↓ or Inton Aldol condens.



$\uparrow \text{HCH=O}$  (one time Addit + one time Cannizzaro)





Sofar:  $\Rightarrow$  "Before Mainz":  $\text{PCl}_5 + \text{Et}-\text{C}(=\text{N}-\text{CH}_2)\text{Cl} \rightarrow \text{Et}-\text{C}(\text{Cl})_2-\text{C}(=\text{O})\text{Cl} + \text{PCl}_3$   $\xrightarrow{\text{Et}-\text{C}(=\text{O})\text{Cl}}$  gemdi halide.

$\Rightarrow$  Roadmap - 20.

( $\text{Et}-\text{C}(=\text{O})\text{Cl}$ )  $\Rightarrow$  Nutshell of organic prods.

$\text{Et}-\text{C}(=\text{O})\text{Cl} + \text{R}-\text{X} \Rightarrow$  Acetyl halide + Alcohol + Et<sub>2</sub>O

(Mains online paper)

$\text{Et}-\text{C}(=\text{O})\text{Cl} + \text{PCl}_5$

epoxide  $\text{Et}-\text{C}(\text{Cl})_2-\text{C}(=\text{O})\text{Cl}$

vic

di / halide

$\downarrow$   $\text{PCl}_5$  or  $\text{H}_2\text{SO}_4$

L.A

B.A.



$\Rightarrow$  Chemistry in everyday life + Carbonyl halide + A.A

"1-8" Quiz paper.

Beckmann  $\Rightarrow$  Handwritten notes "given"

Rearrangement.  $\Rightarrow$  IUPAC common name IUPAC name.

12th NCERT Every topic x

(you should go home) IUPAC NAME (1st 2 pages)