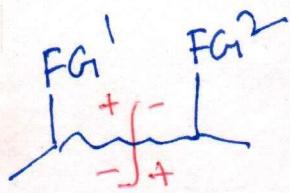


Two group C-C disconnections:

(48)

majorly dependent on the distance

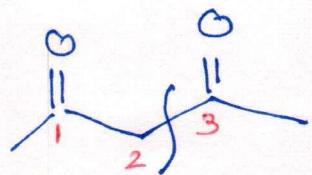
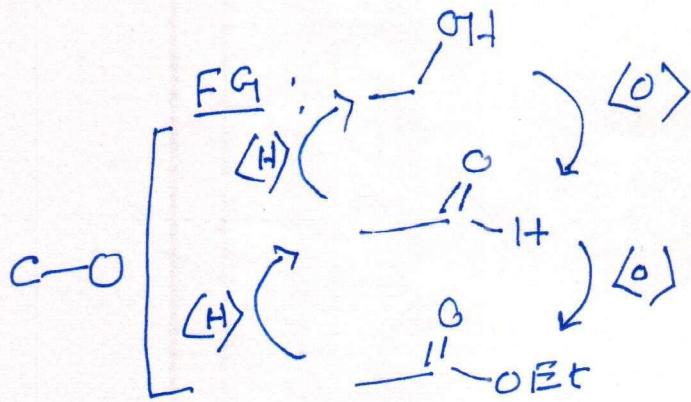


1,2

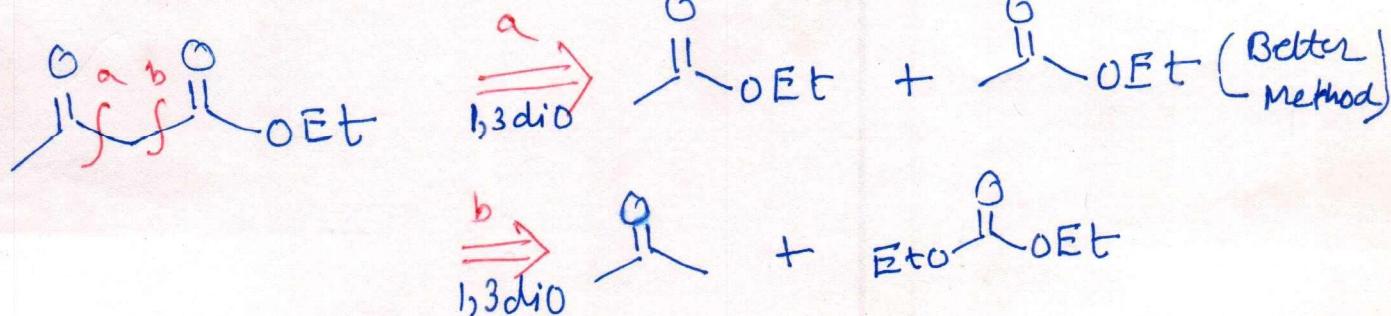
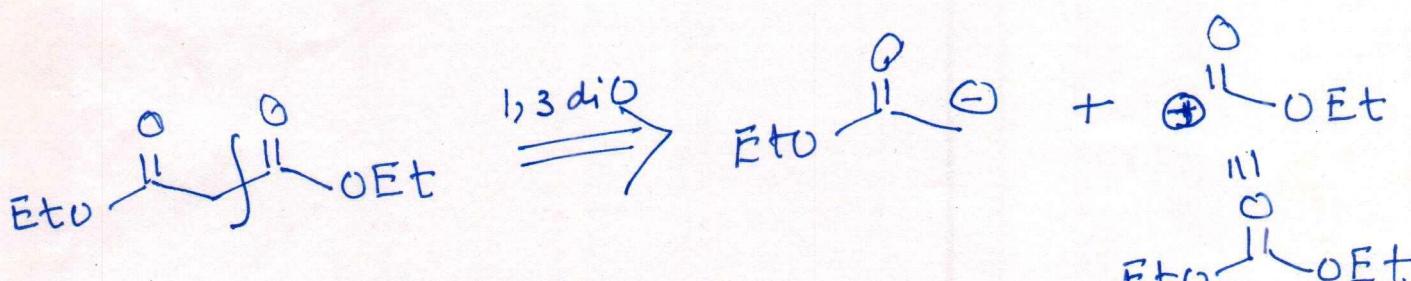
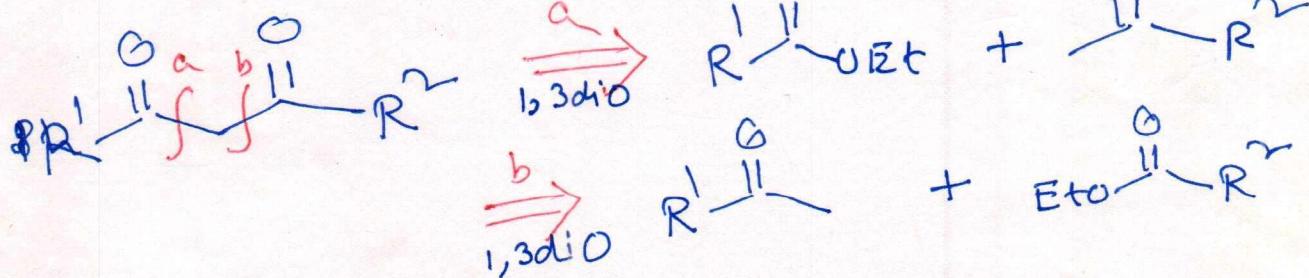
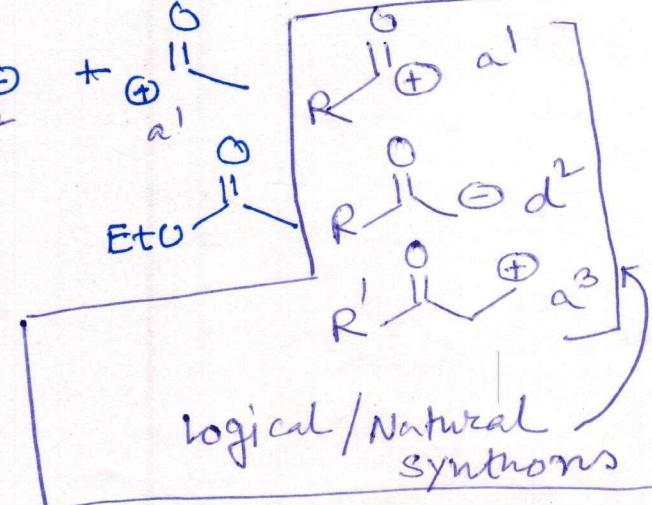
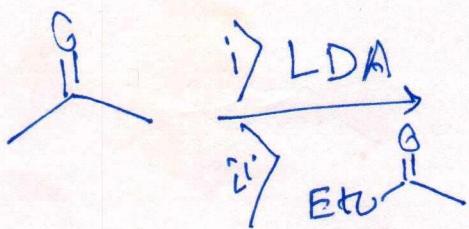
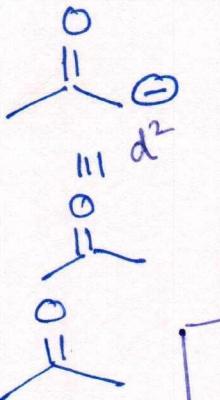
1,3

1,4

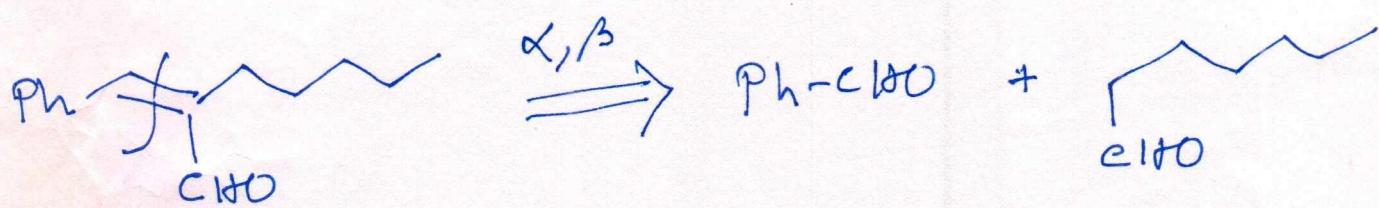
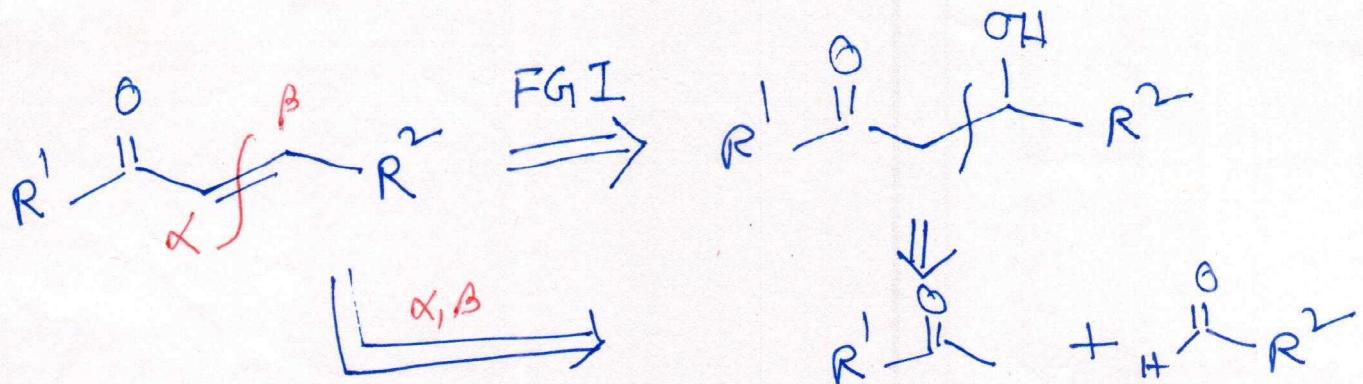
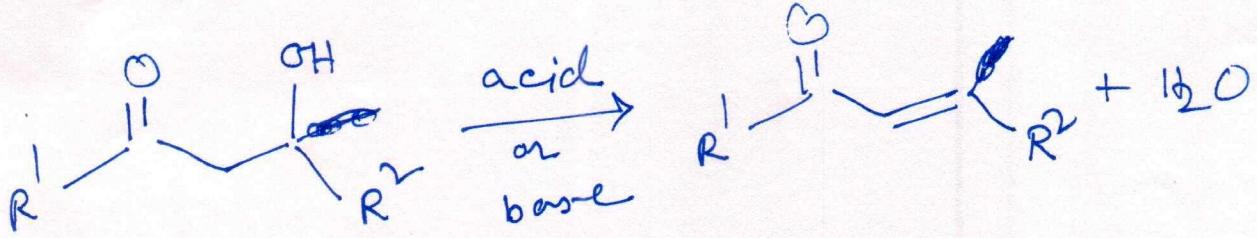
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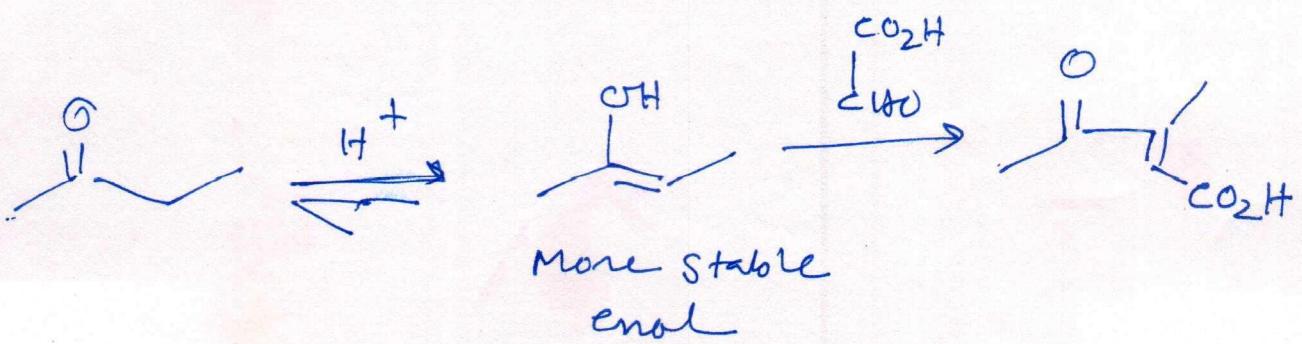
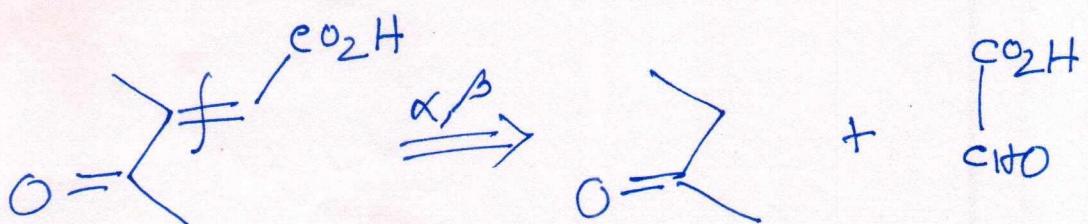
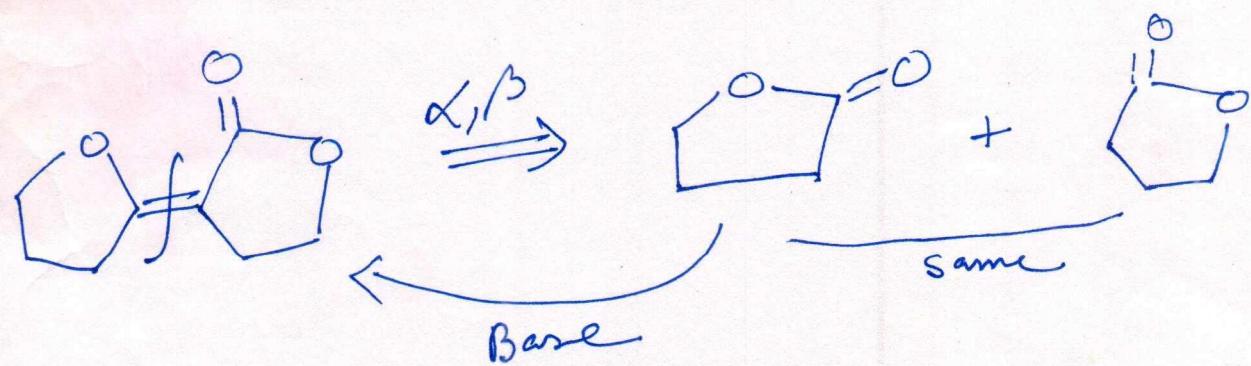
1,3 diO

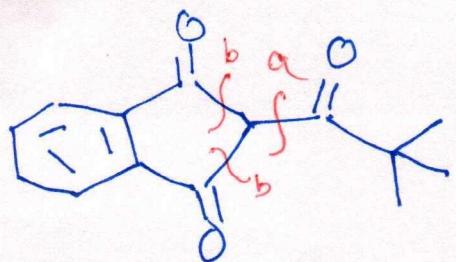


49

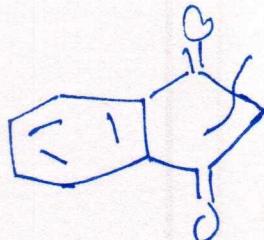


perfume ingredient





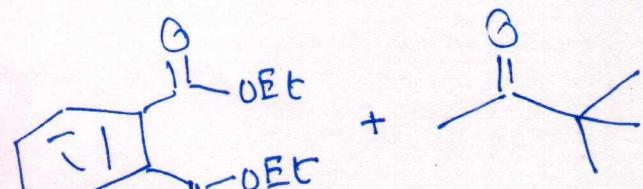
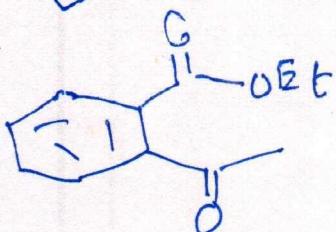
$\xrightarrow{1,3\text{ diO}}$



Rat poison

$2 \times 1,3\text{ diD} \downarrow b$

$\downarrow 1,3\text{ diO}$

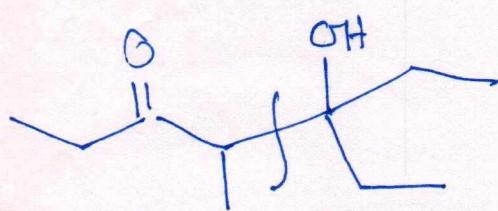


Base

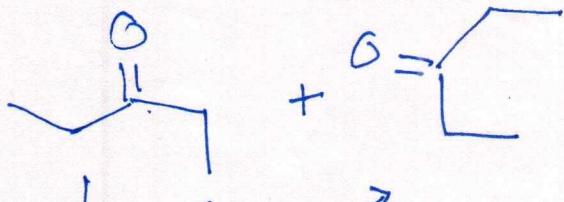
\swarrow

\searrow

Other derivatives:

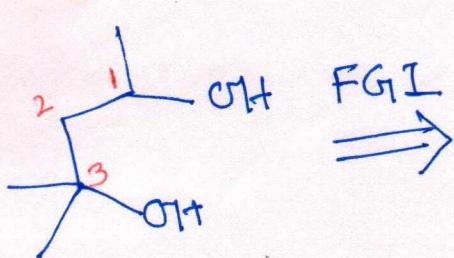


$\xrightarrow{1,3\text{ diO}}$

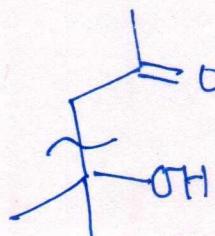


Base

Identical

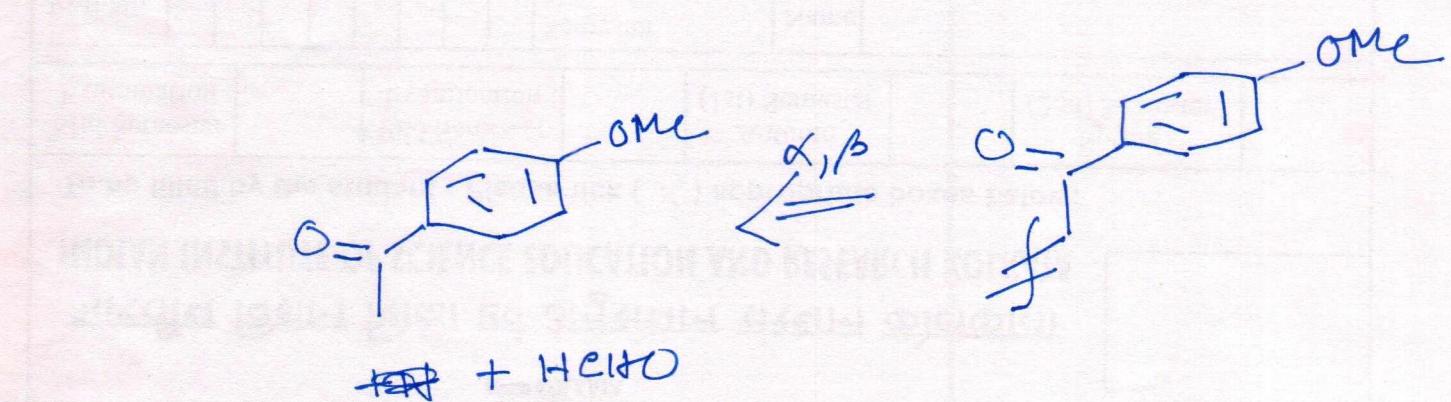
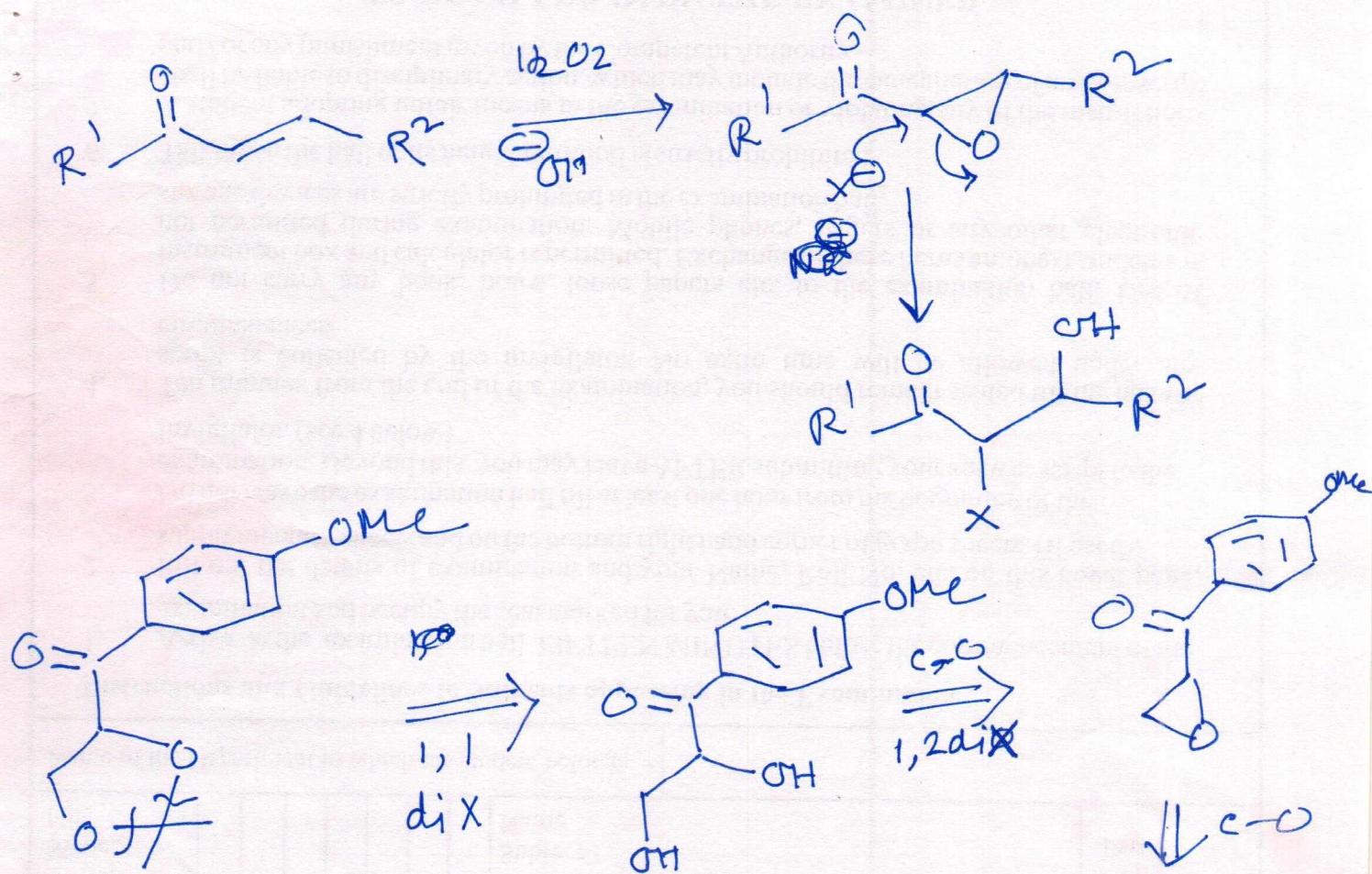
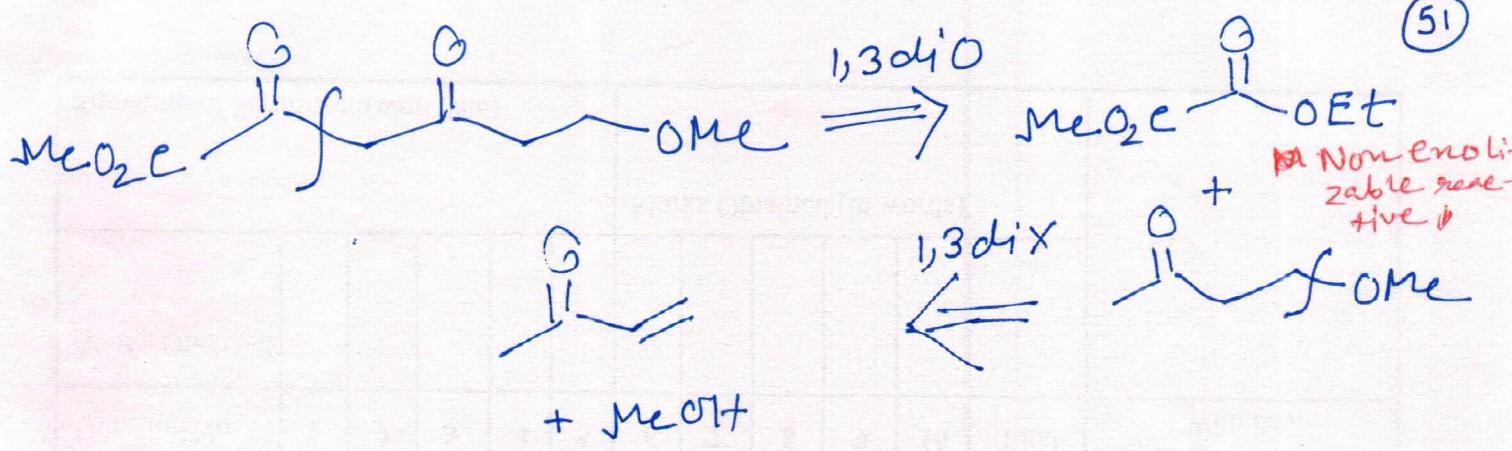


$\xrightarrow{\text{FGI}}$

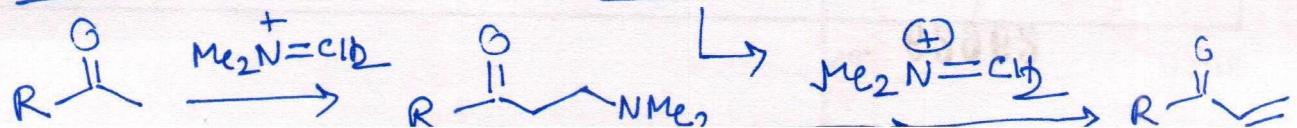


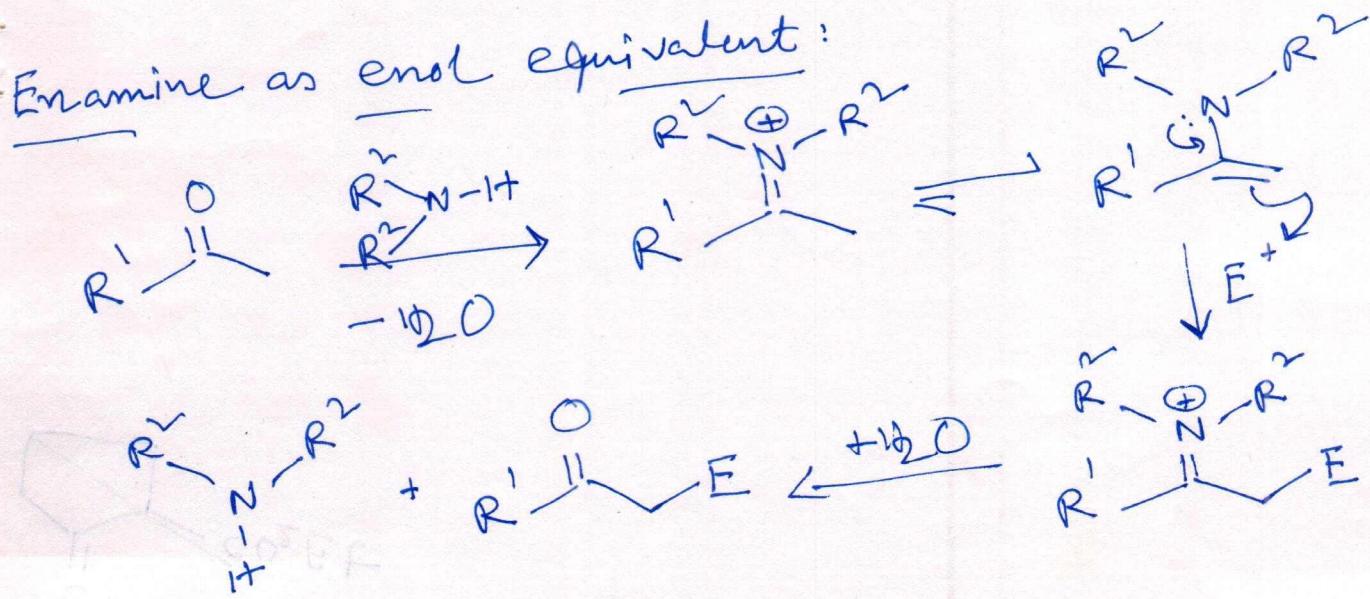
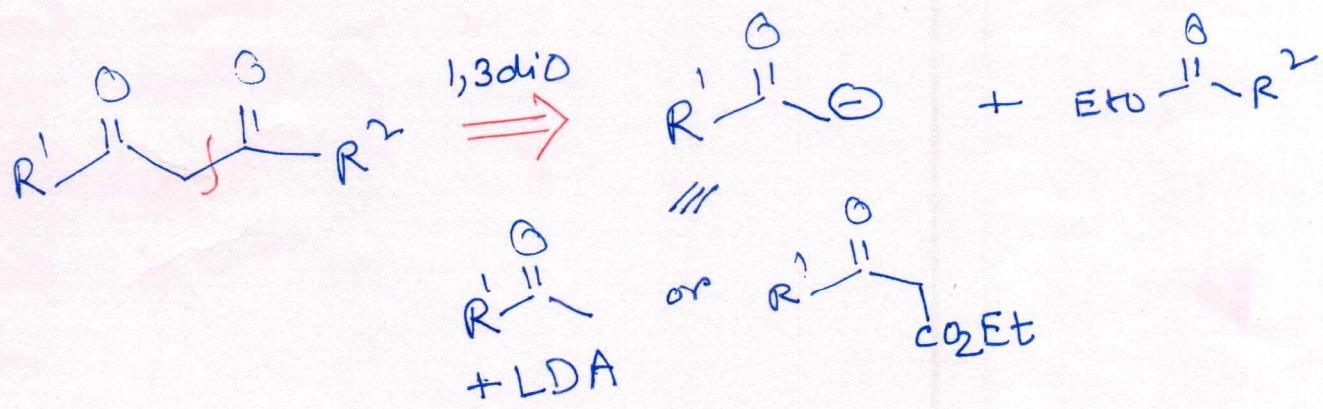
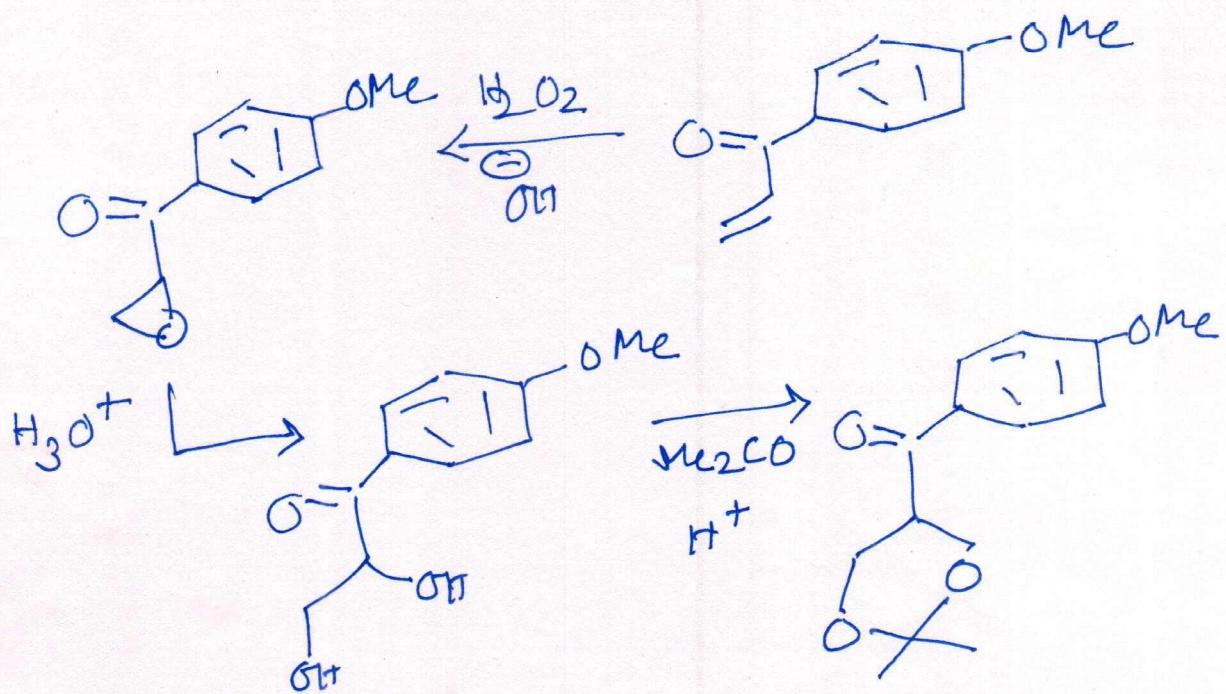
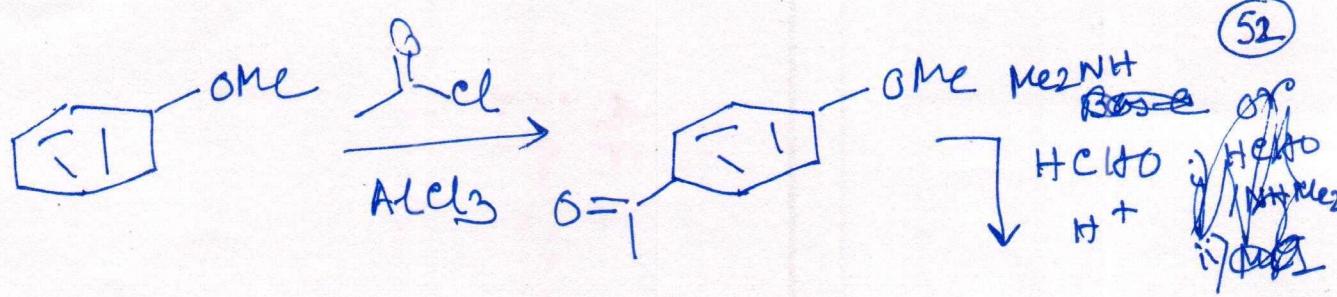
$\xrightarrow{1,3\text{ diO}}$





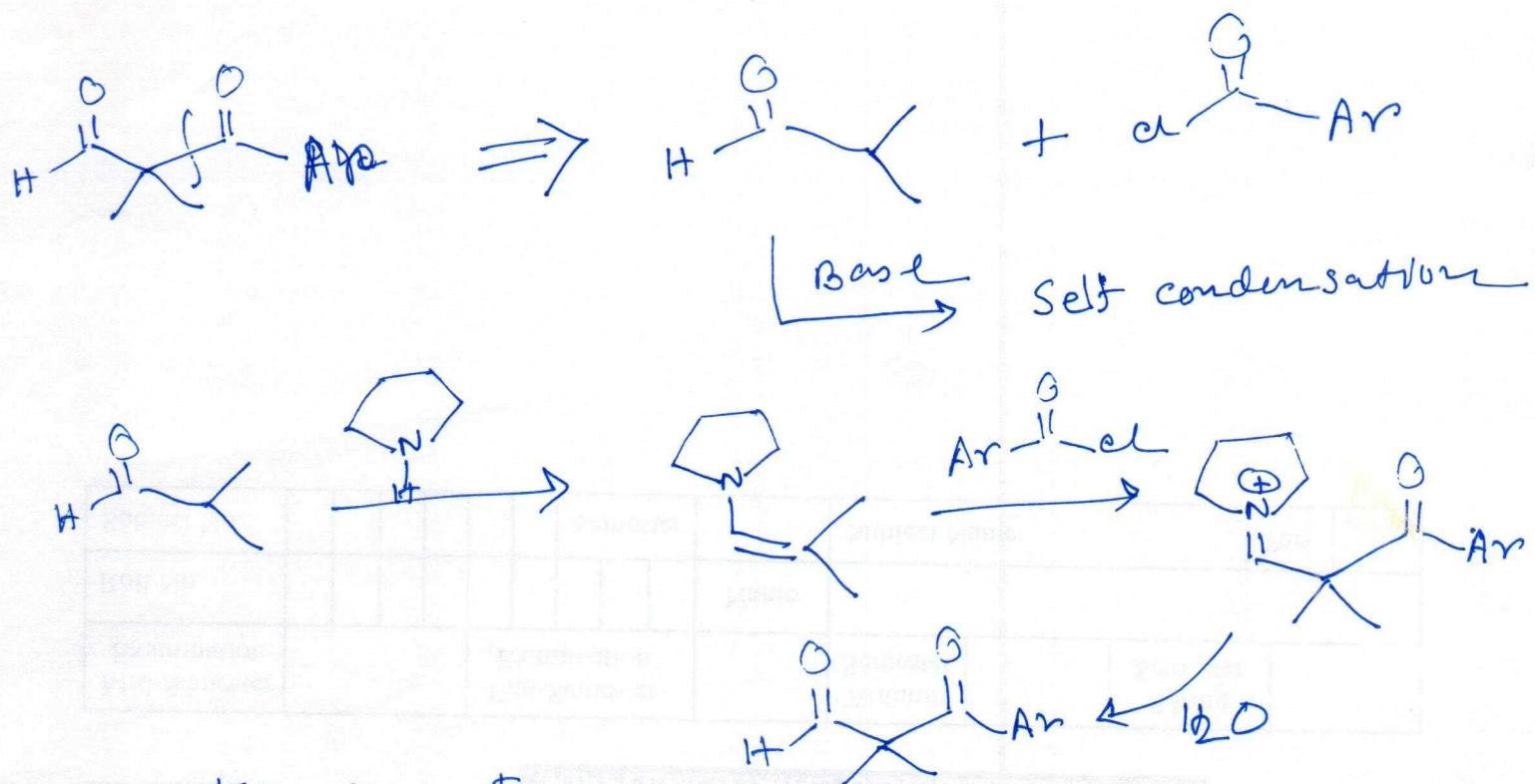
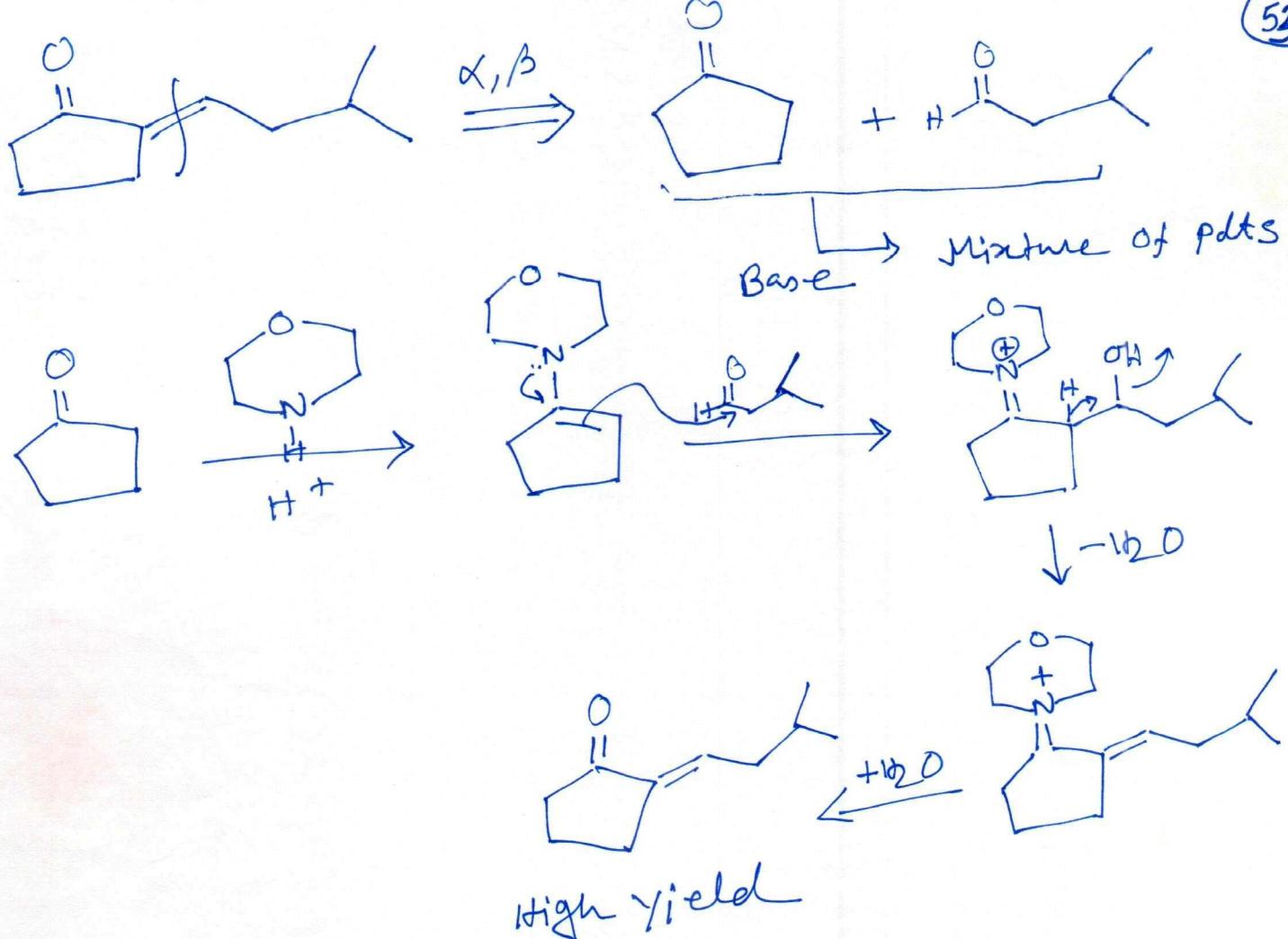
Mannich reacⁿ : $\text{HCHO} + \text{Me}_2\text{NH} + \text{HCl}$



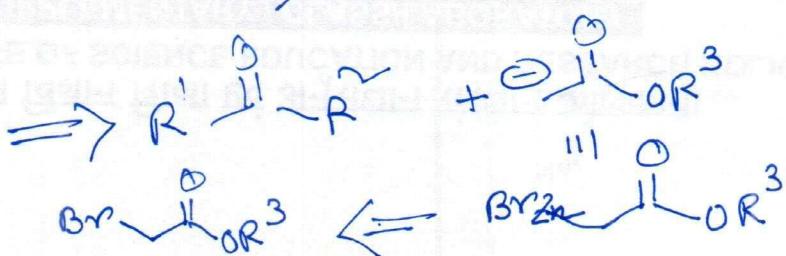
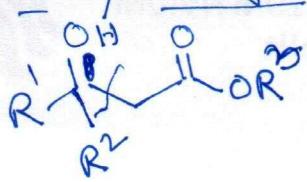


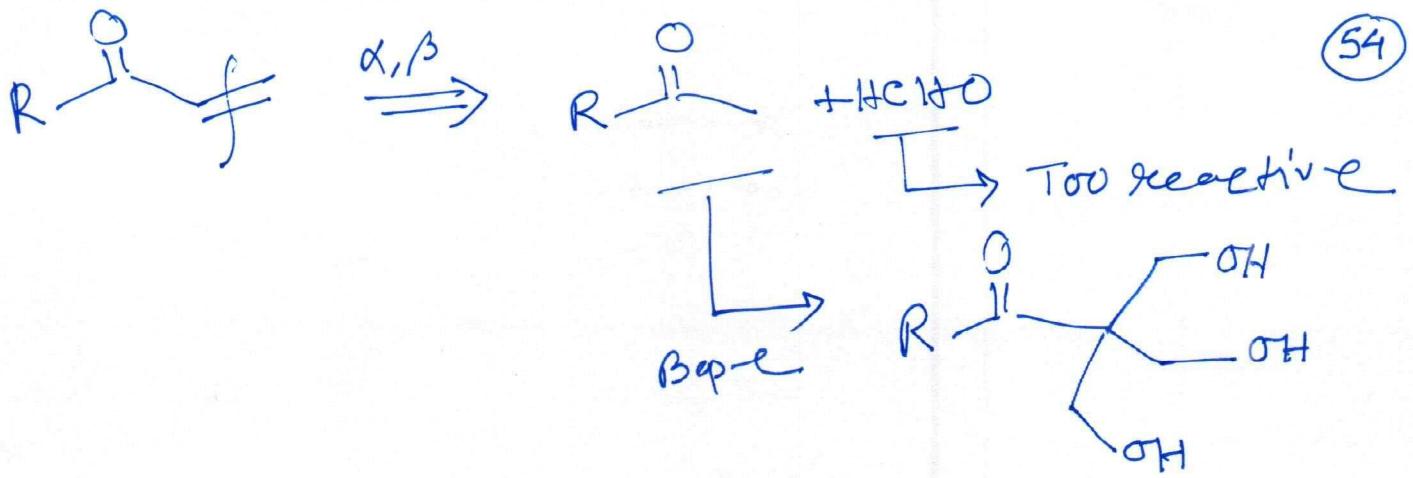
Very useful in case of reactions with aldehydes:

(53)



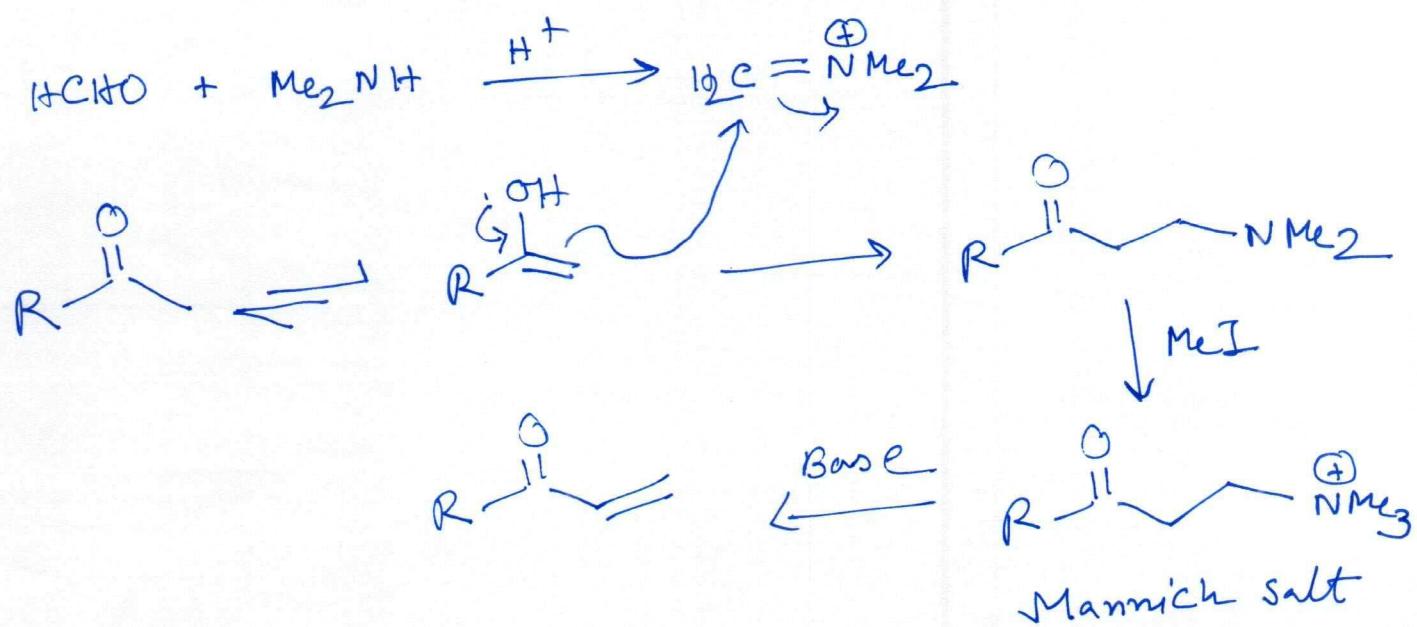
Reformatsky reagent



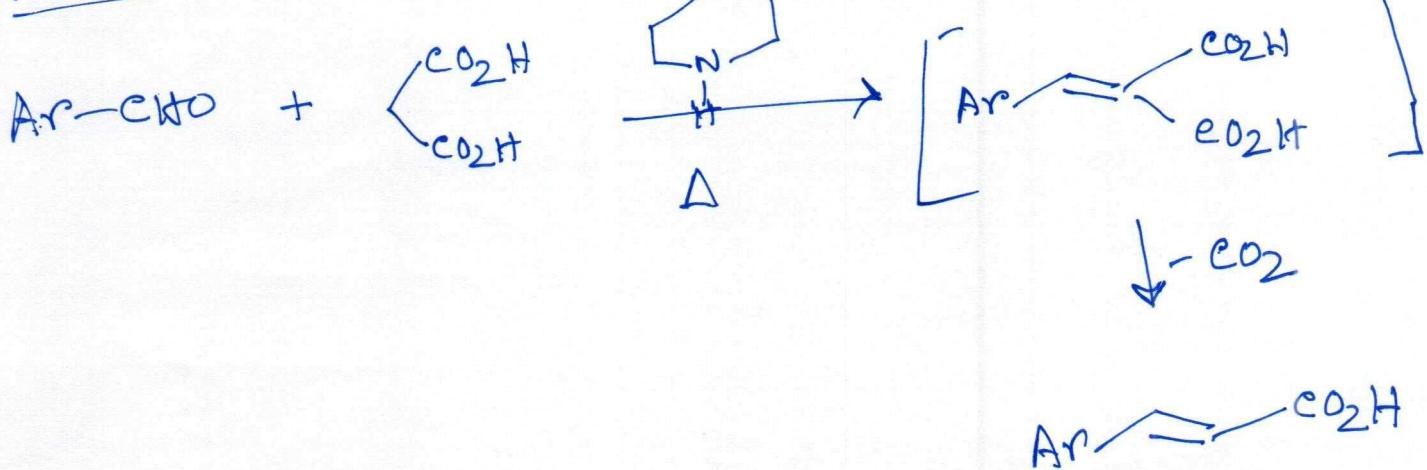


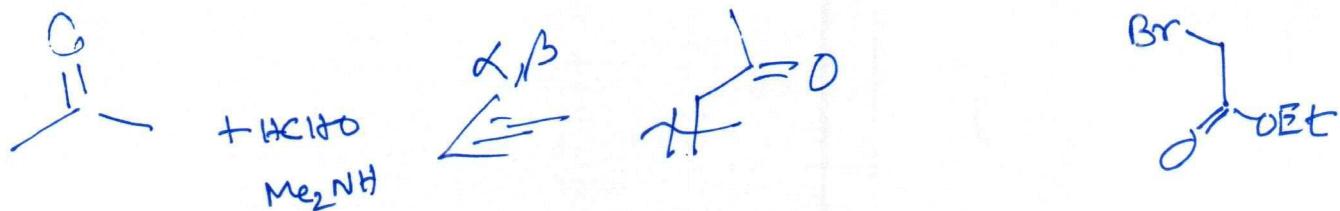
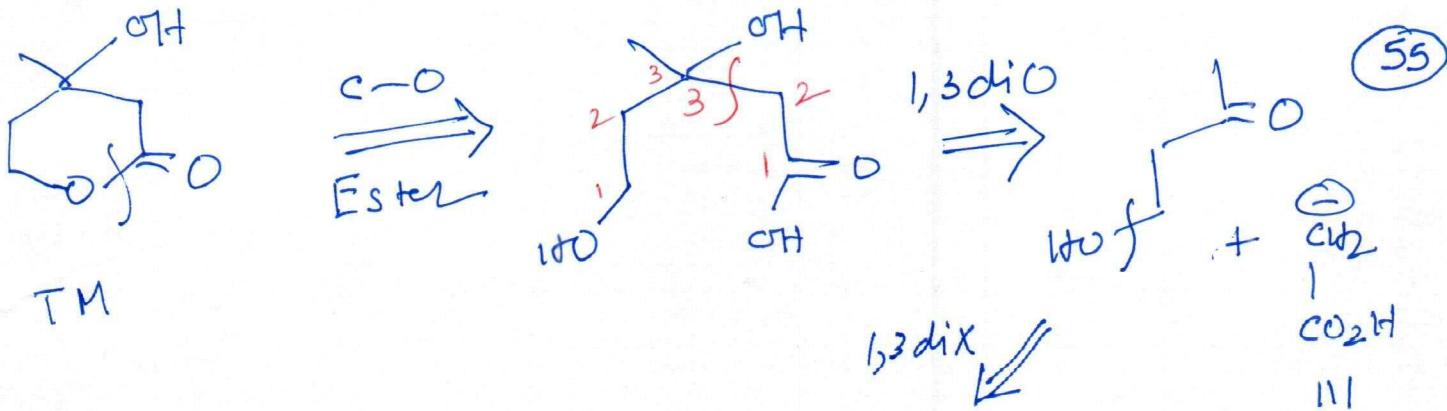
Chance of multiple rxn

Mannich rxn:



Doebner Modification:





Synthesis:

