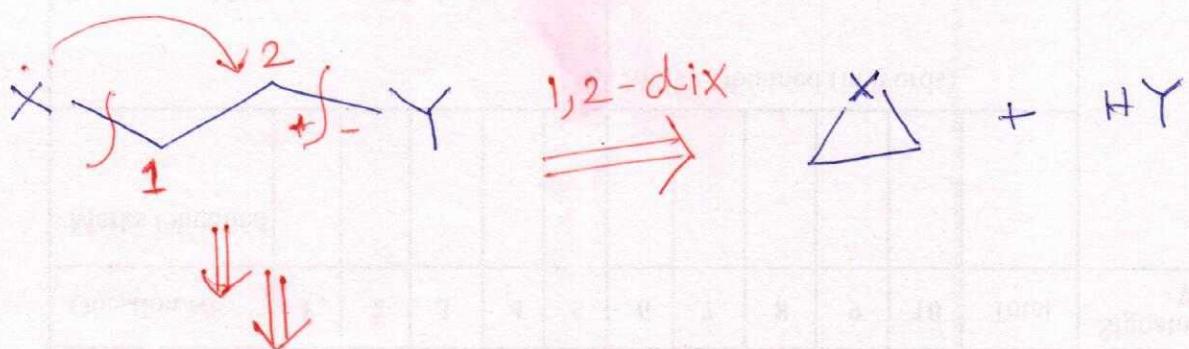
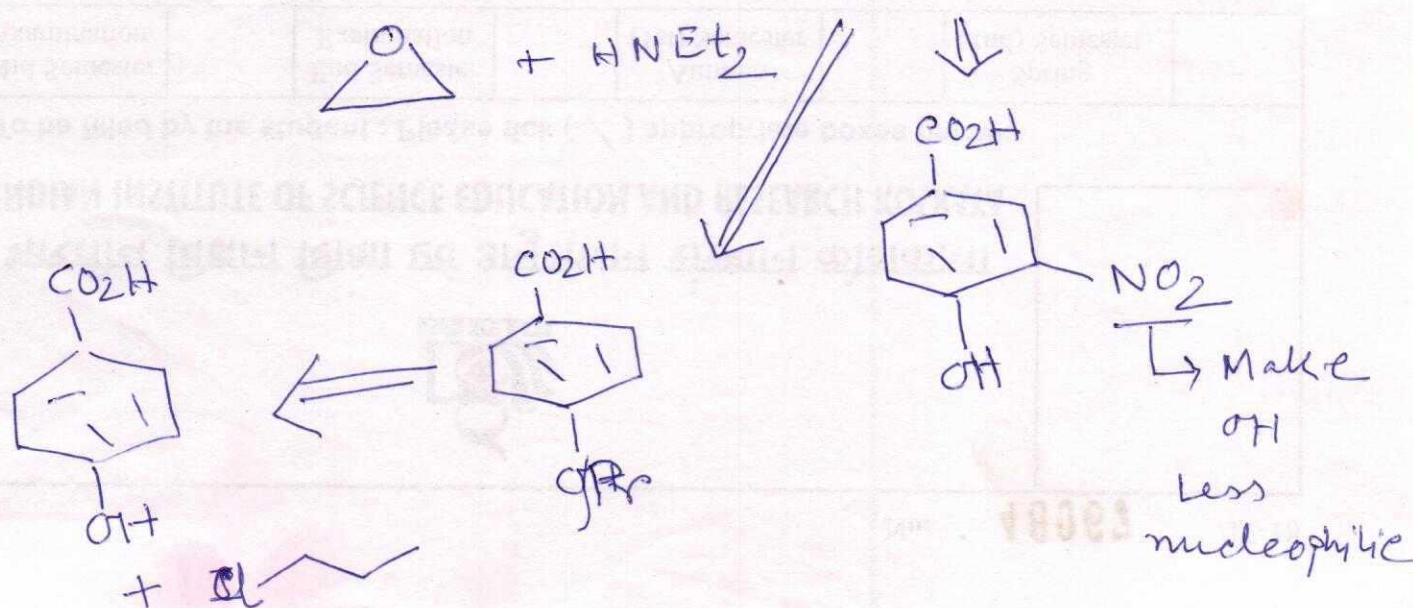
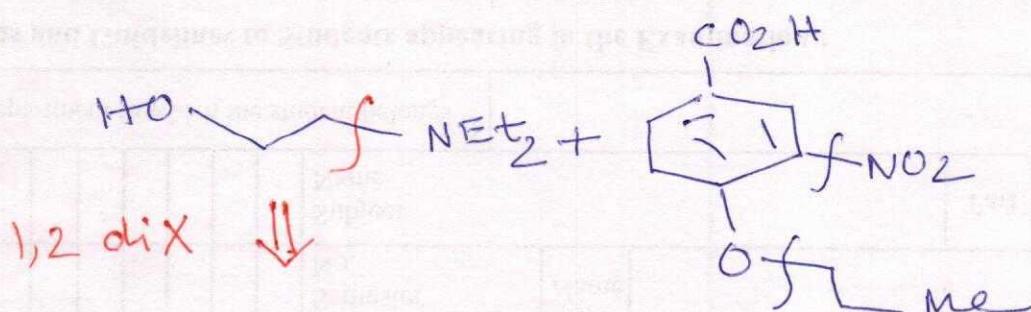
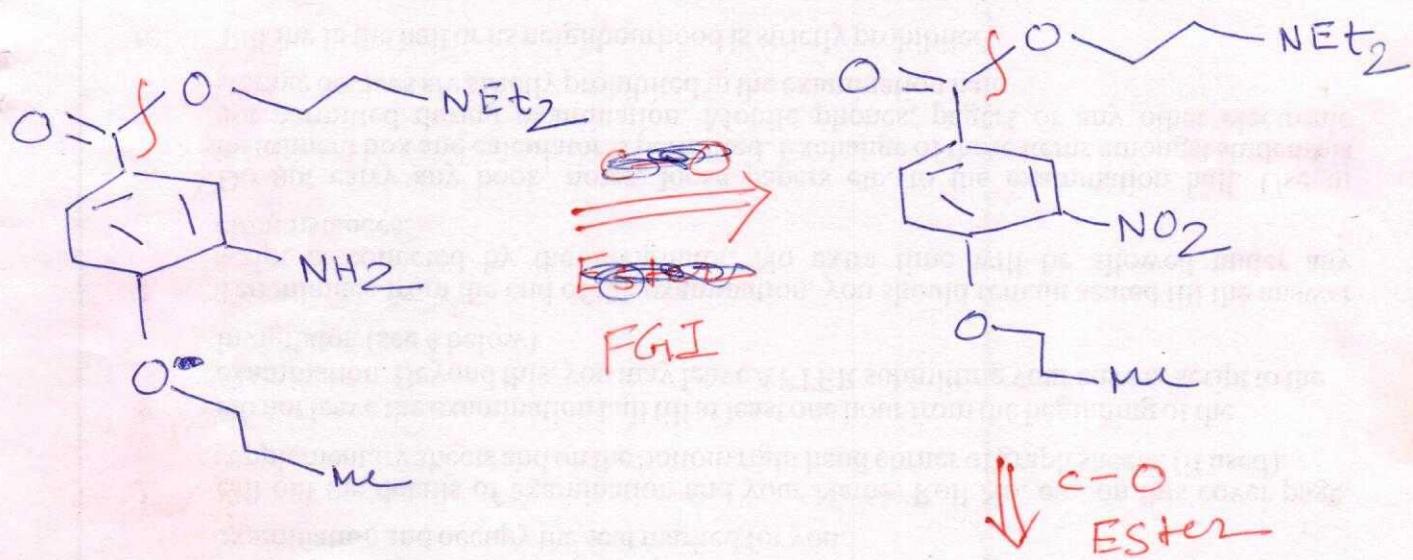


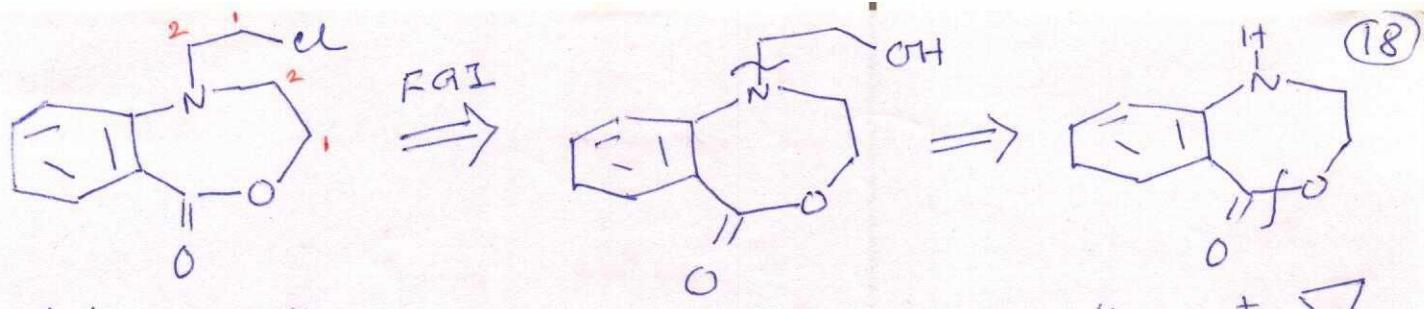
1,2-di-functionalized compounds:

(17)

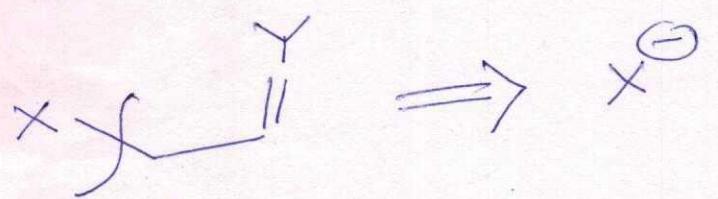
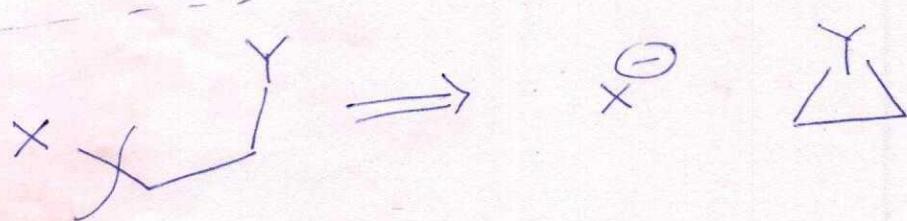
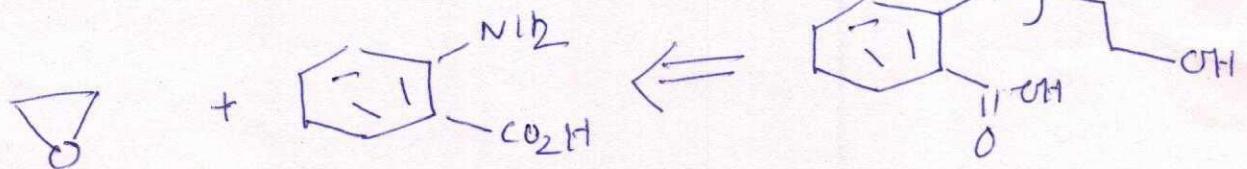


Two times one group
disconnection

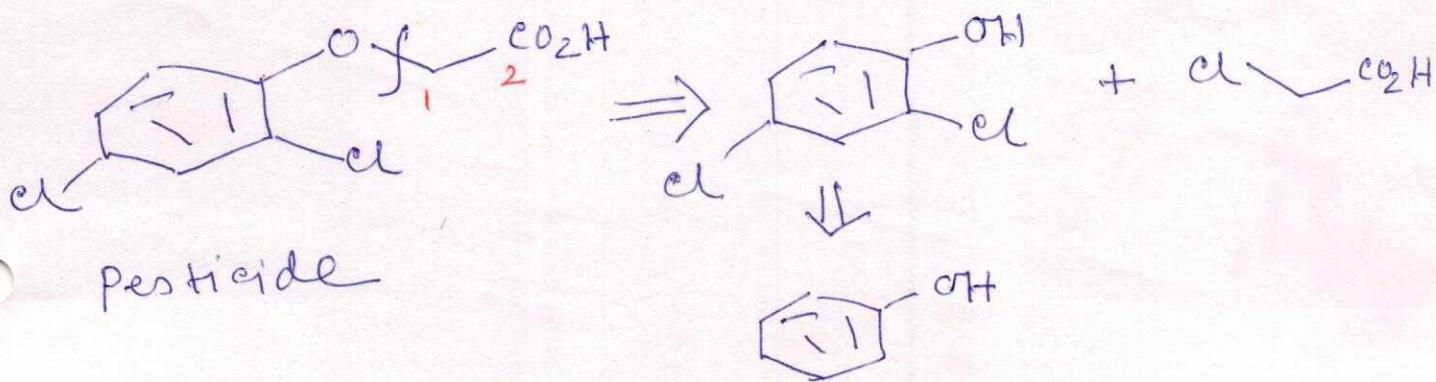
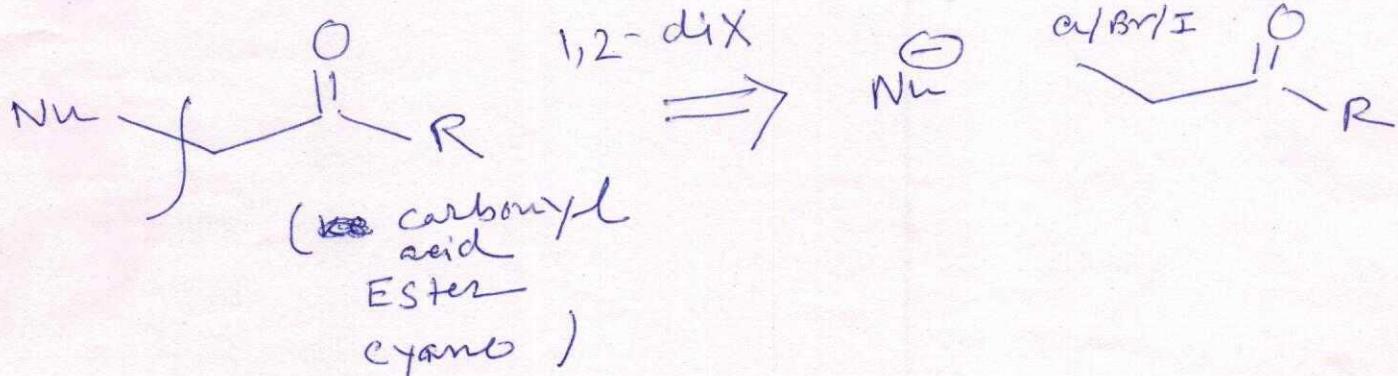




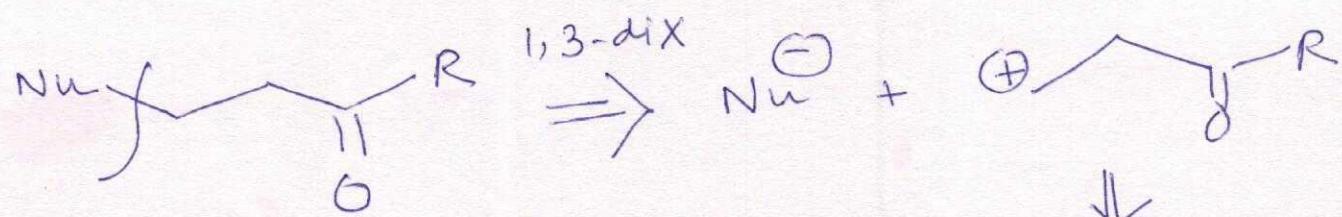
Anti-tumour
activity



Enhancing
the reactivity
of this synthon



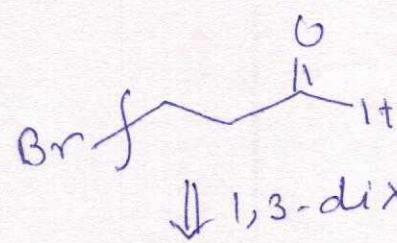
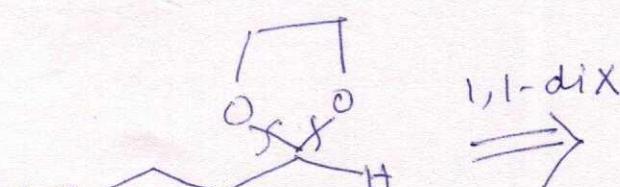
1, 3-Difunctionalized Compounds:



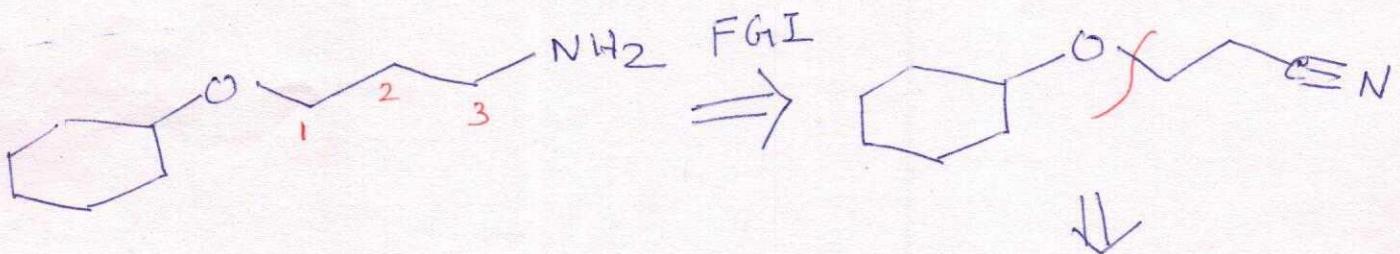
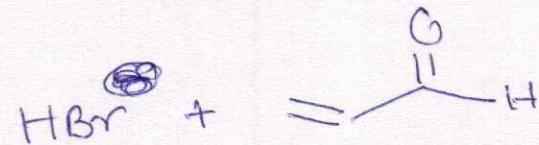
Michael
add'n



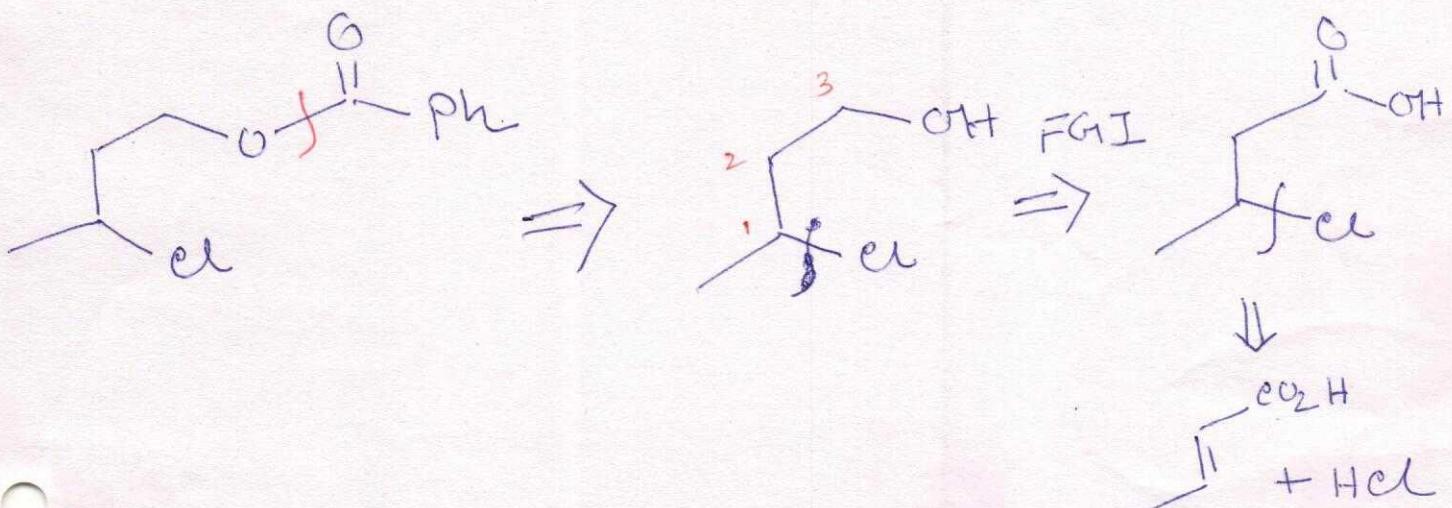
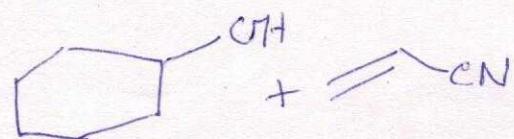
EWG
 higher
 oxidation
 state of
 carbon



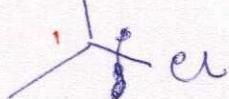
$\downarrow 1,3\text{-dix}$



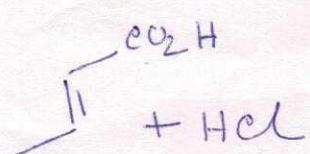
\downarrow



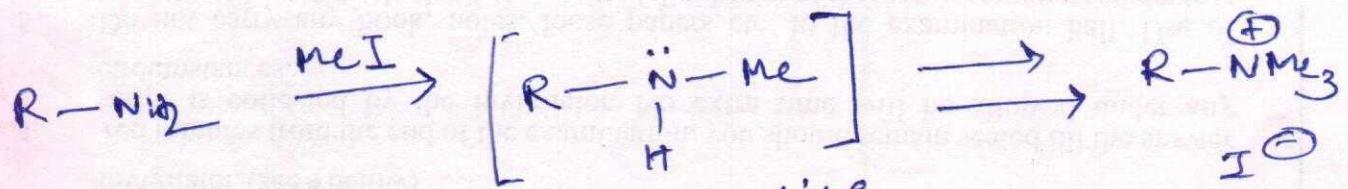
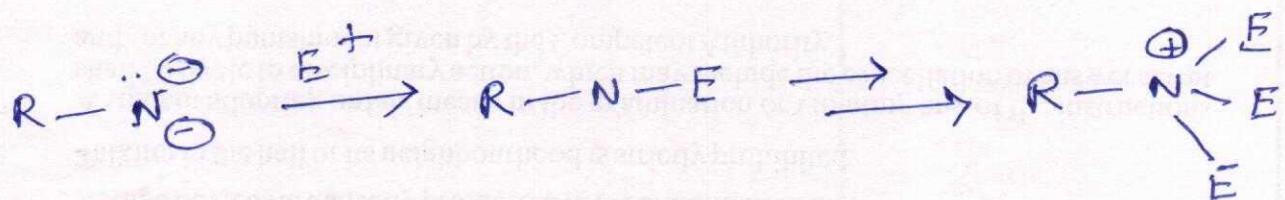
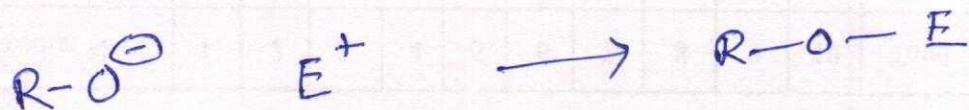
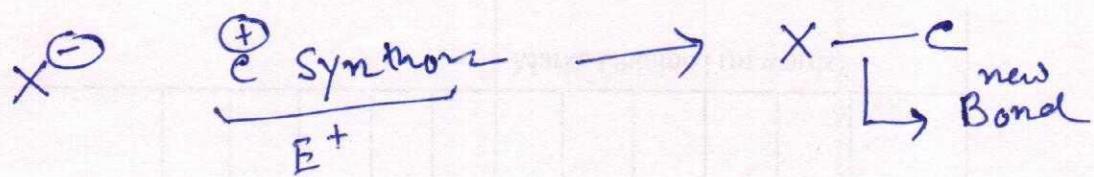
$\xrightarrow{\text{FGI}}$



\downarrow



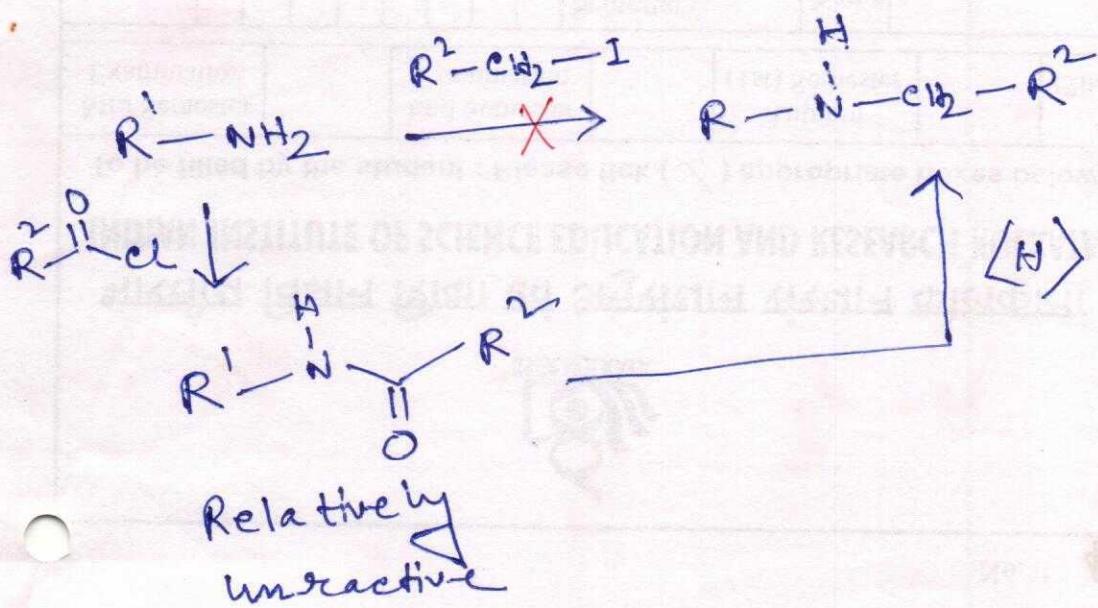
Amine Synthesis:



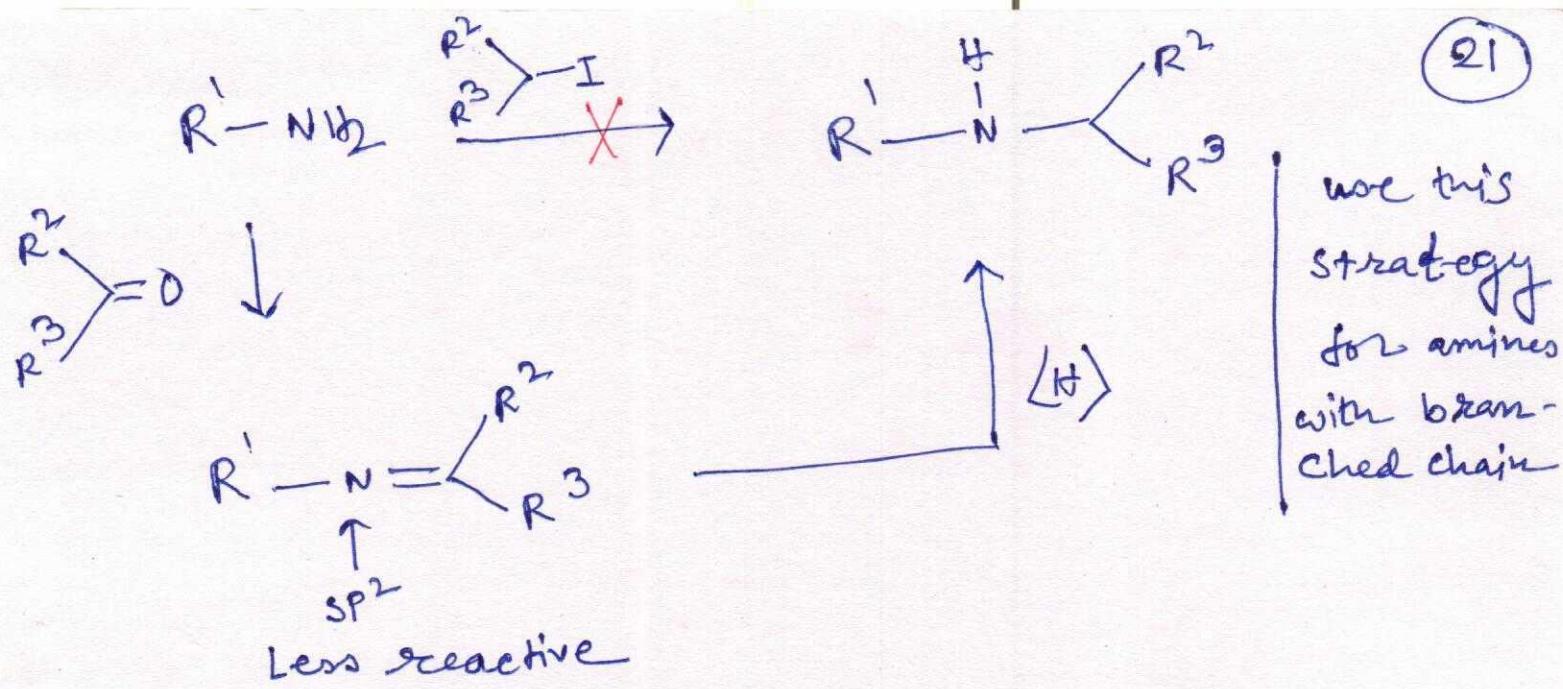
SM

more reactive
than the SM
& difficult to stop
the rxn at this stage

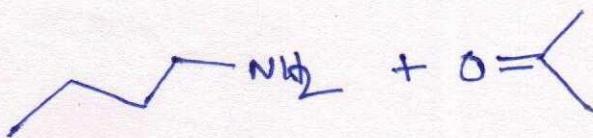
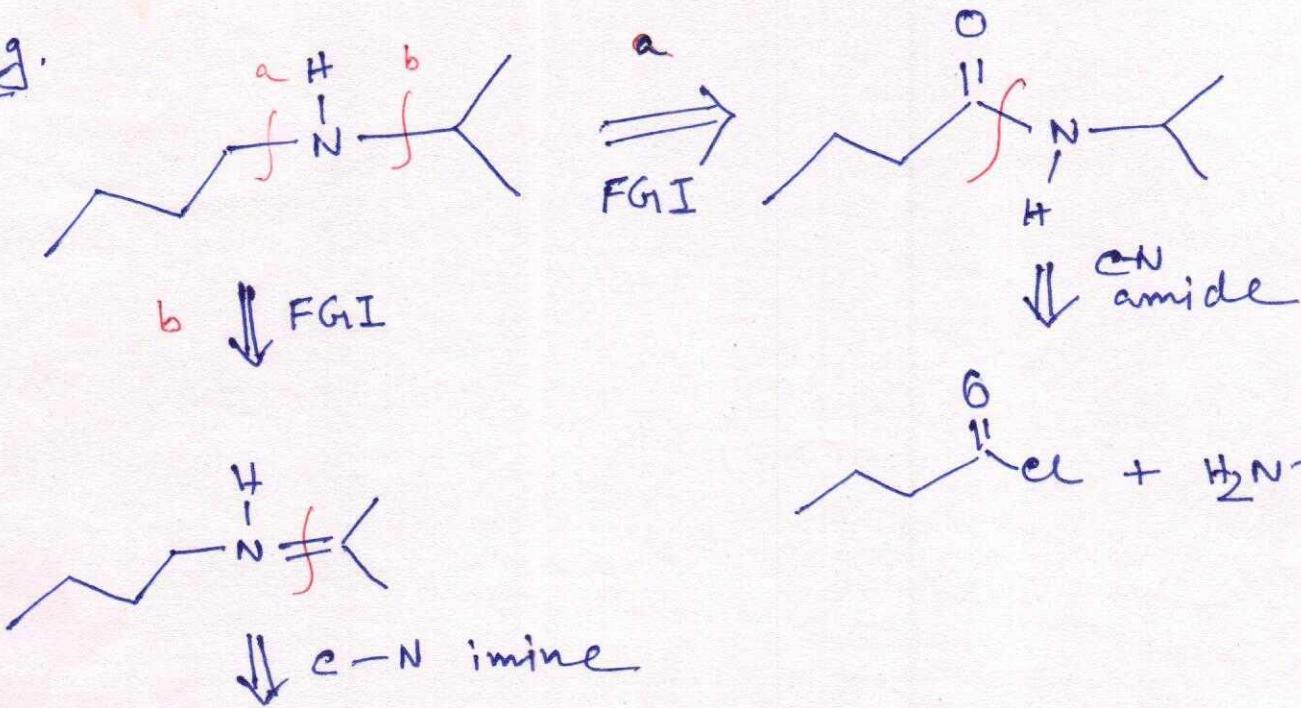
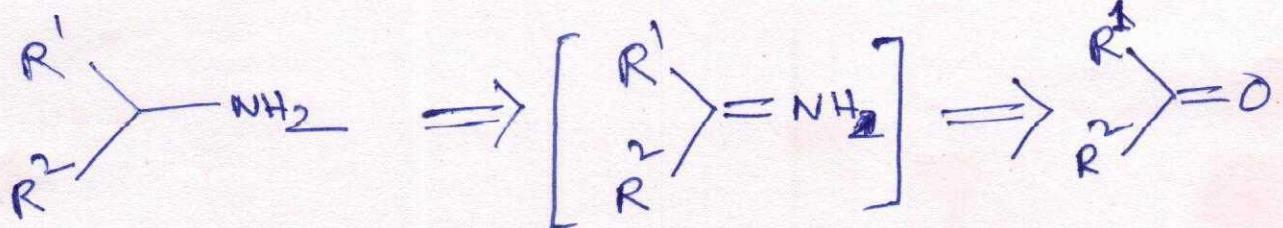
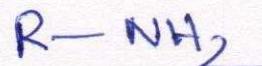
Guideline: Avoid alkyl halides & use instead electrophiles, which give relatively unreactive pdts.



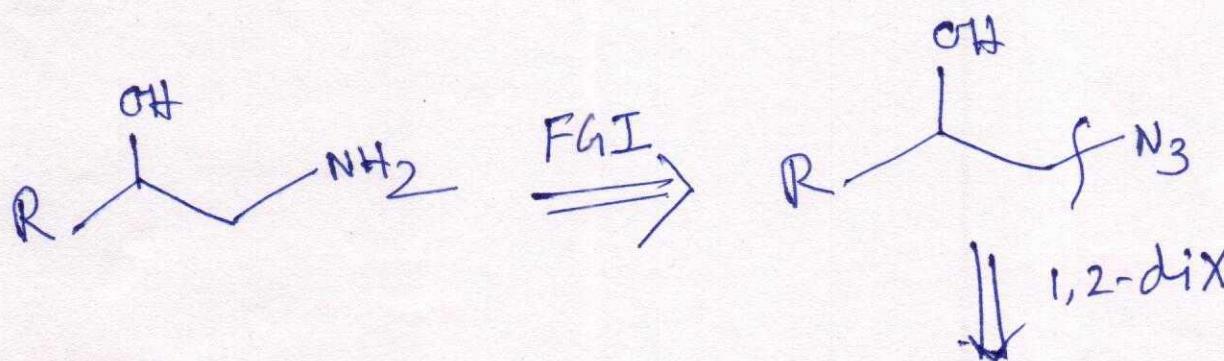
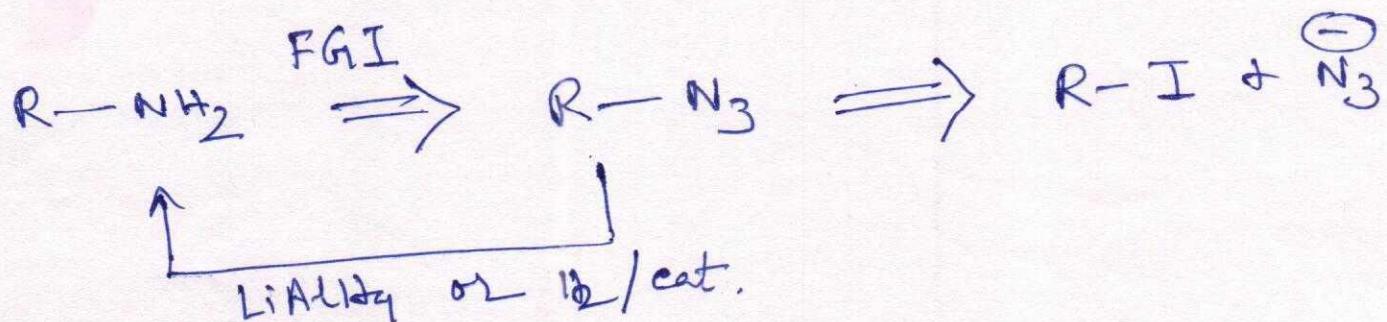
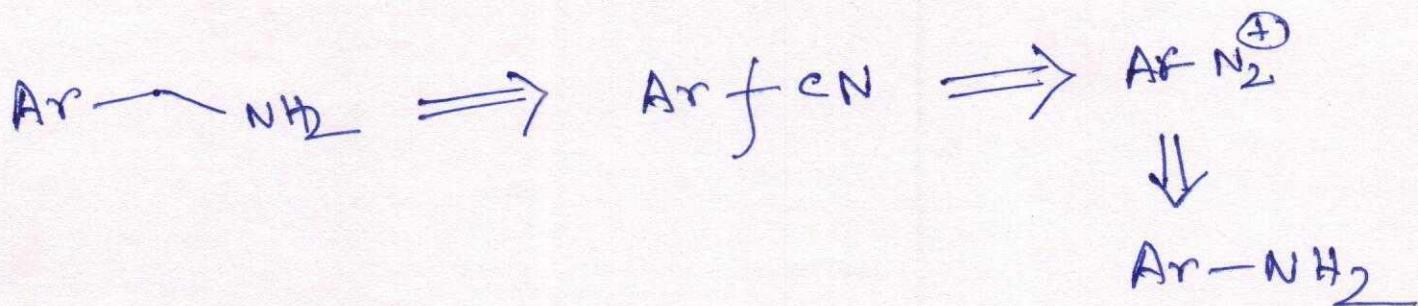
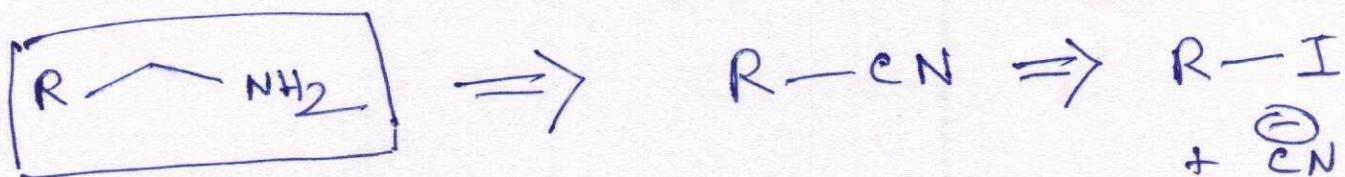
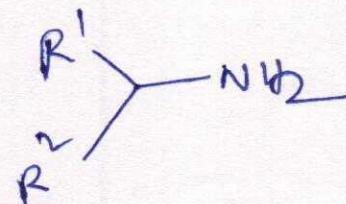
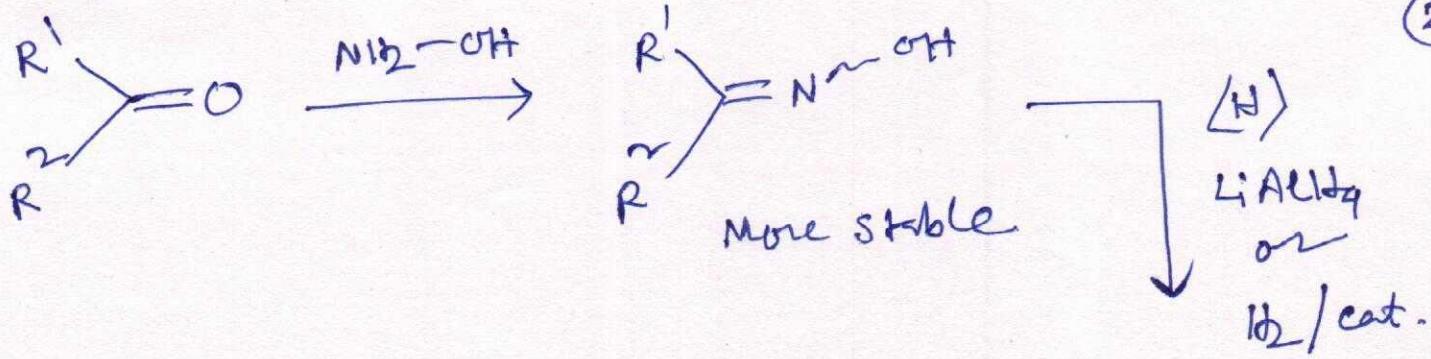
use this strategy
for CH_2 -group
next to N-atom

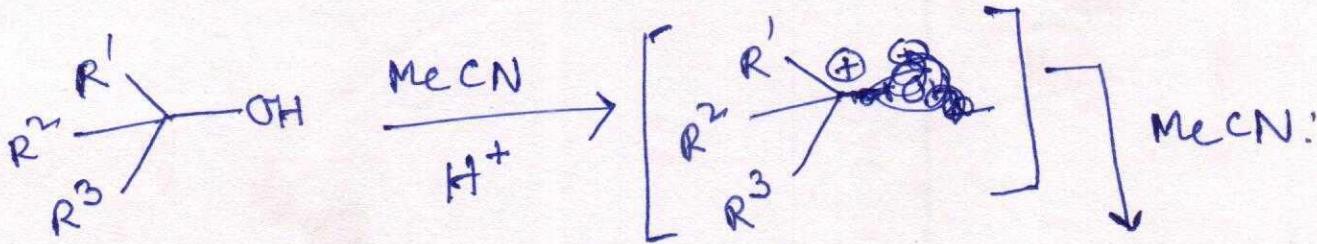
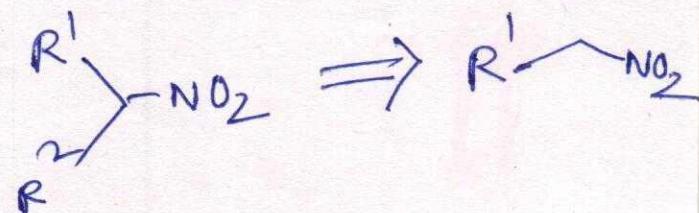
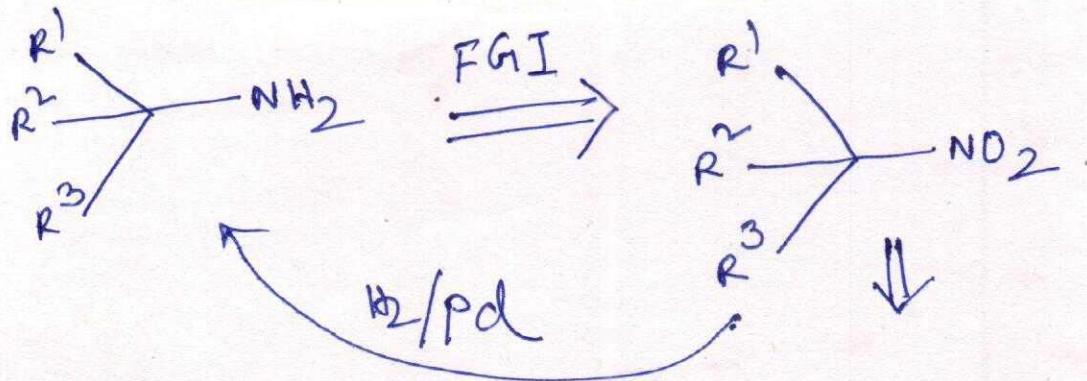


Eg.

Primary amines

Show Forward synthesis unstable





Ritter Rxn:

