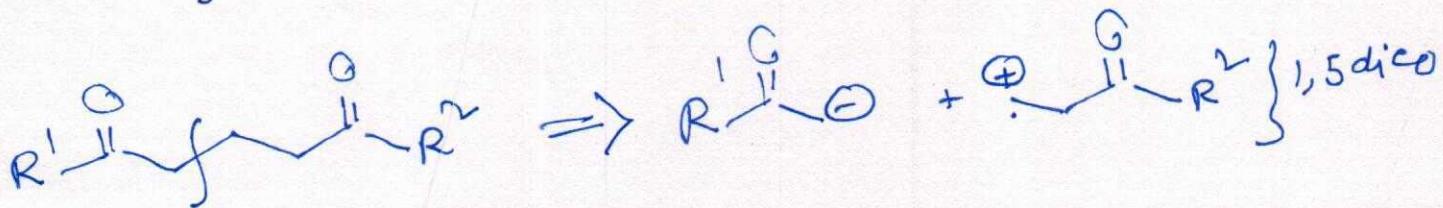
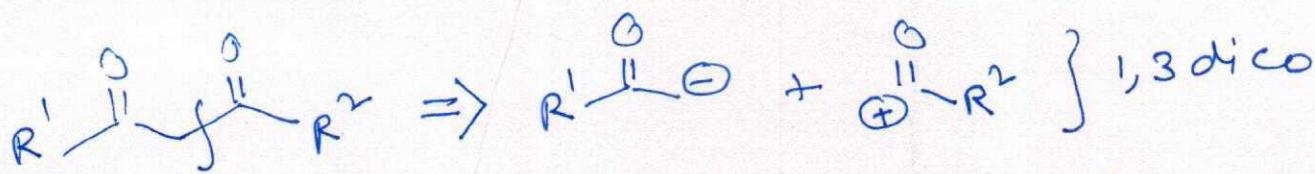
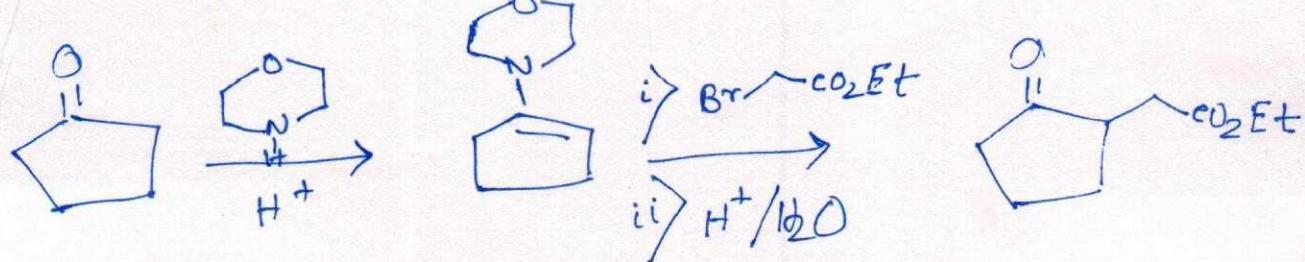
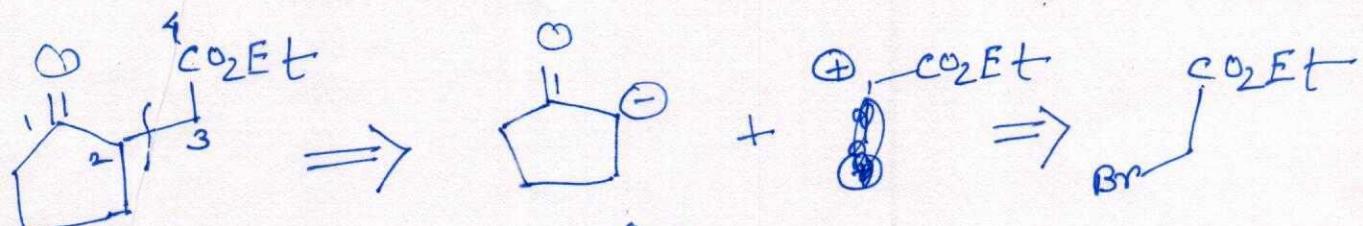
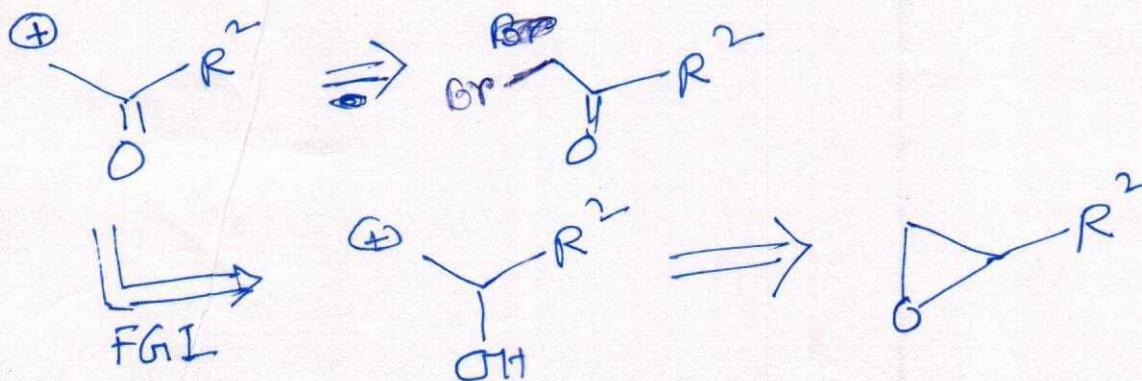
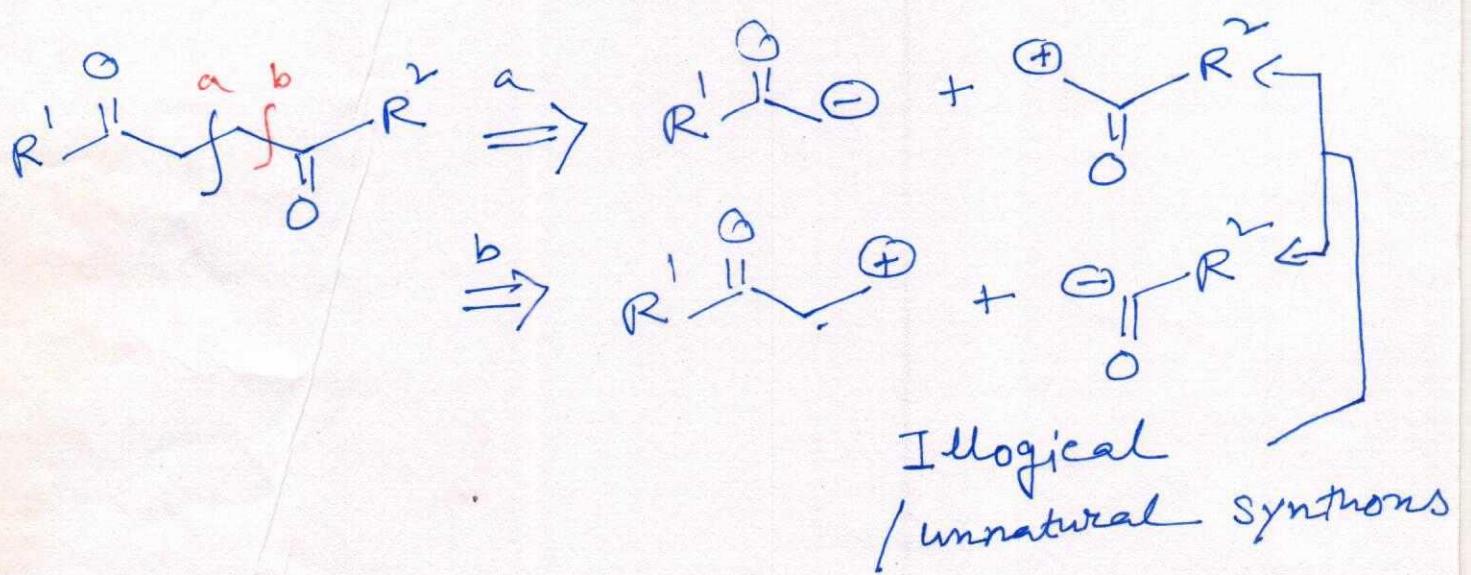


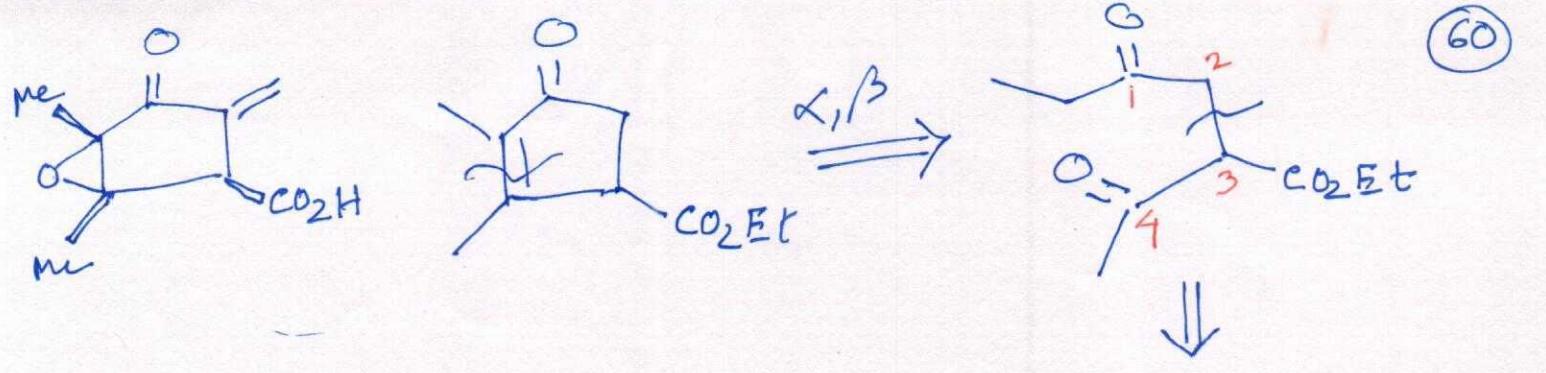
1,4-Difunctionalized Compounds:

(59)

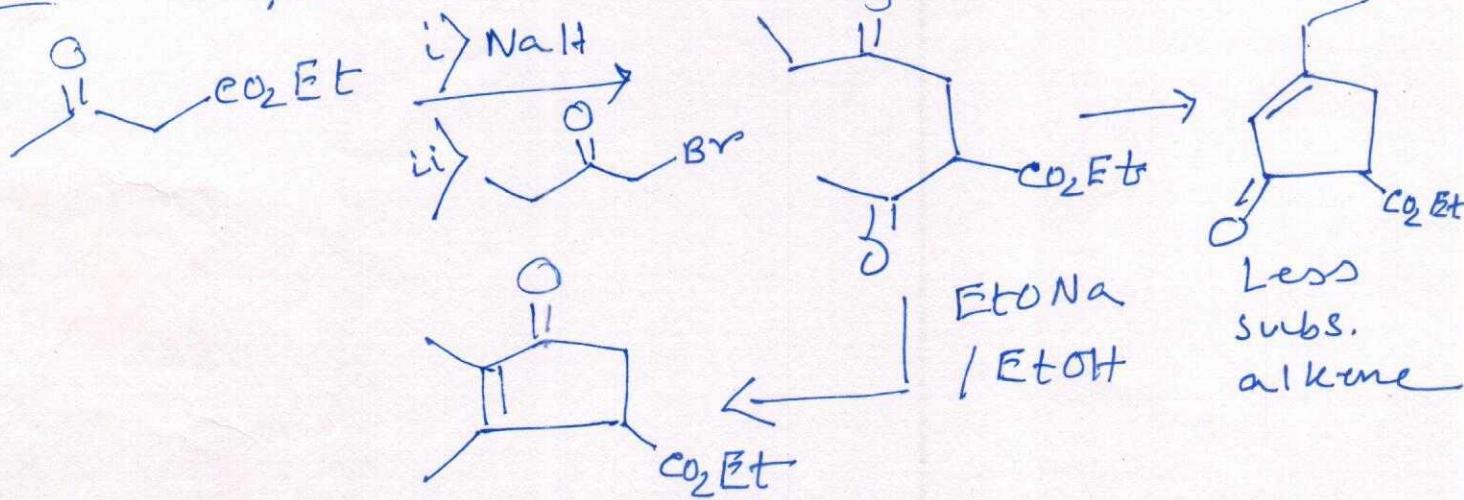


All logical syntheses

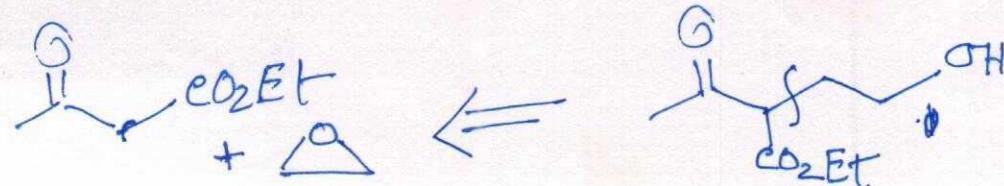
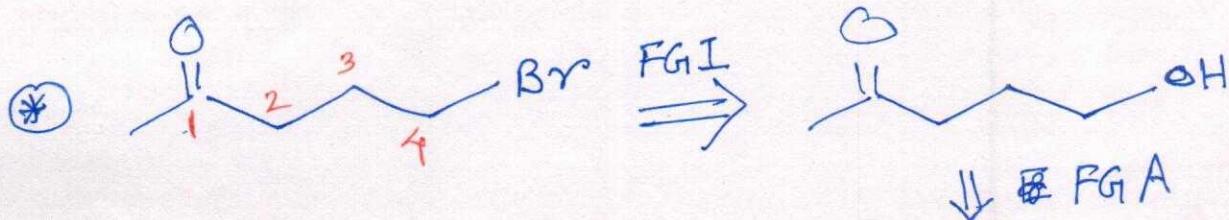
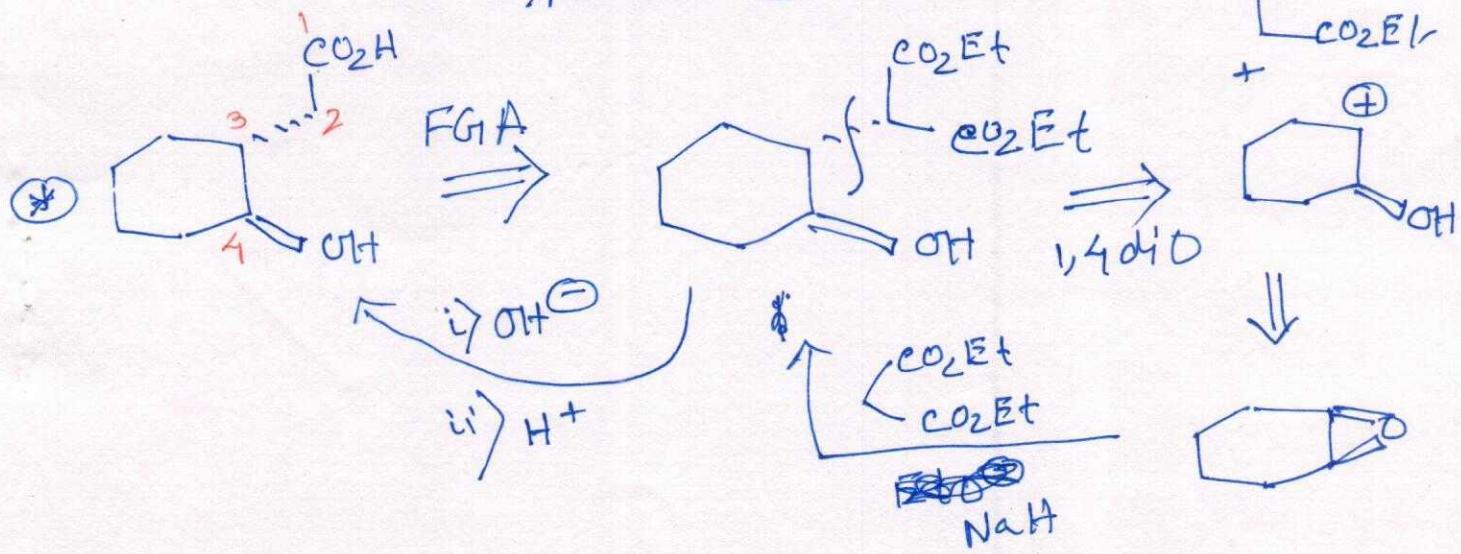




Forward Synthesis:

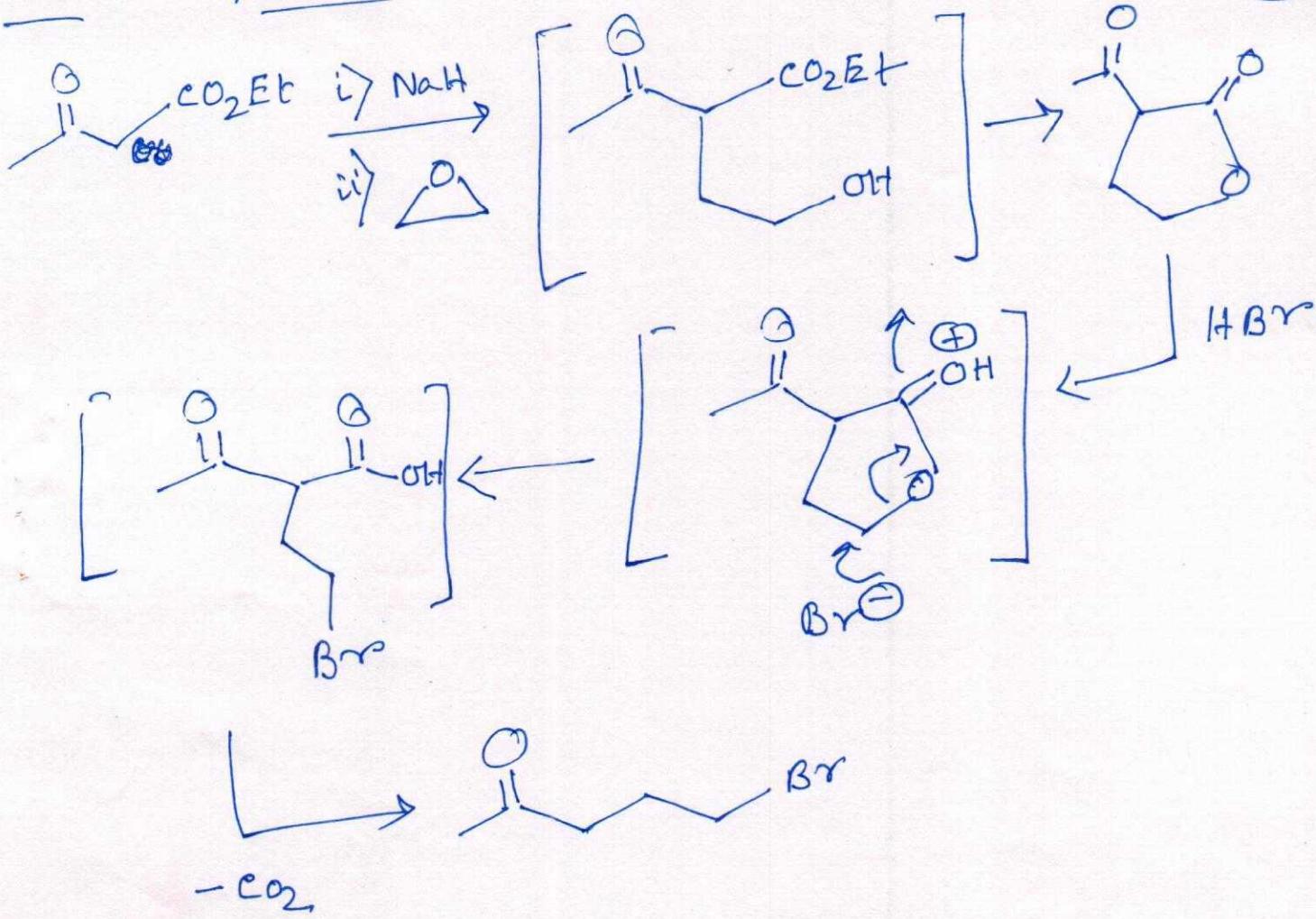


More substituted
Alkene (TCP)

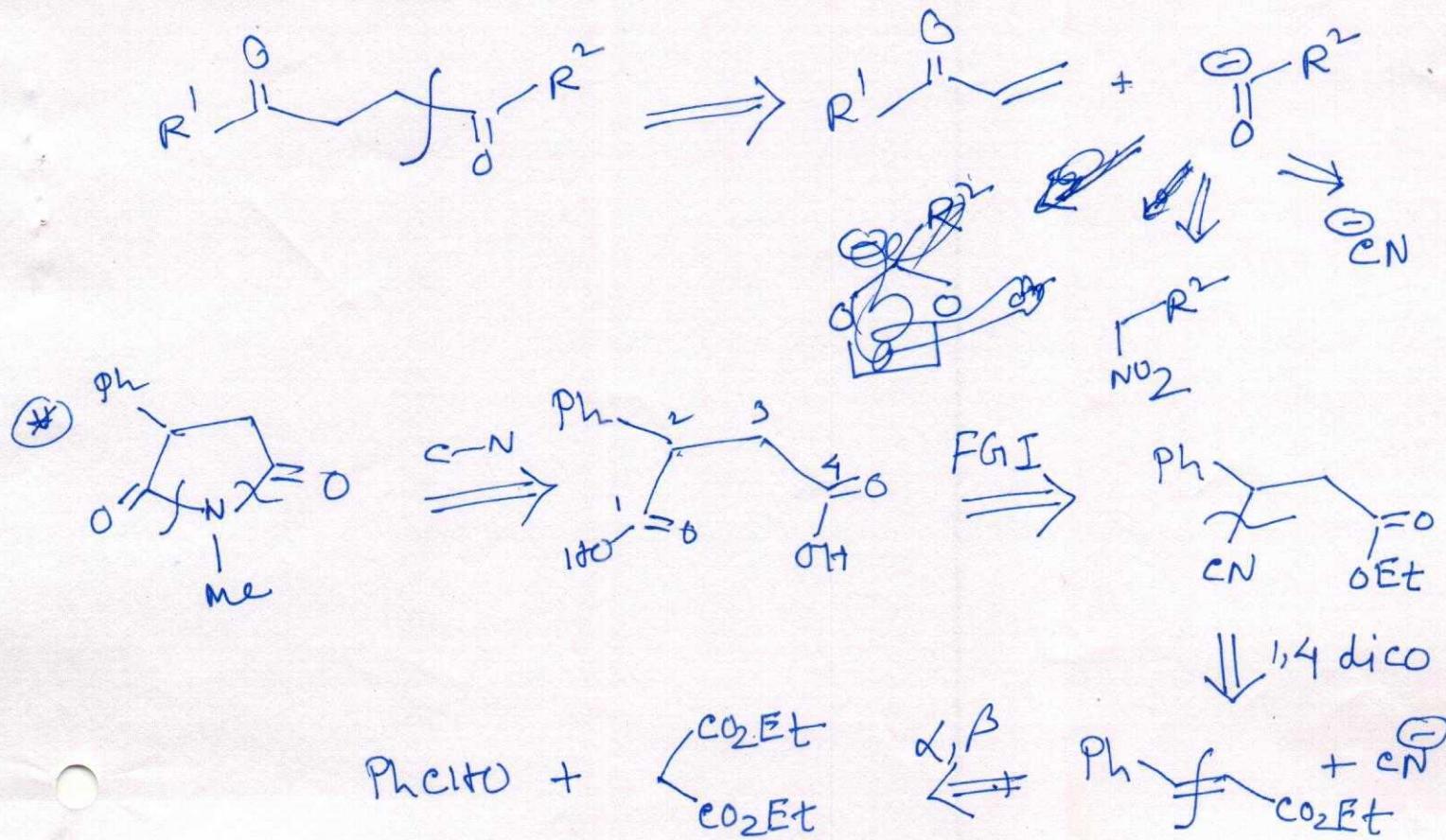


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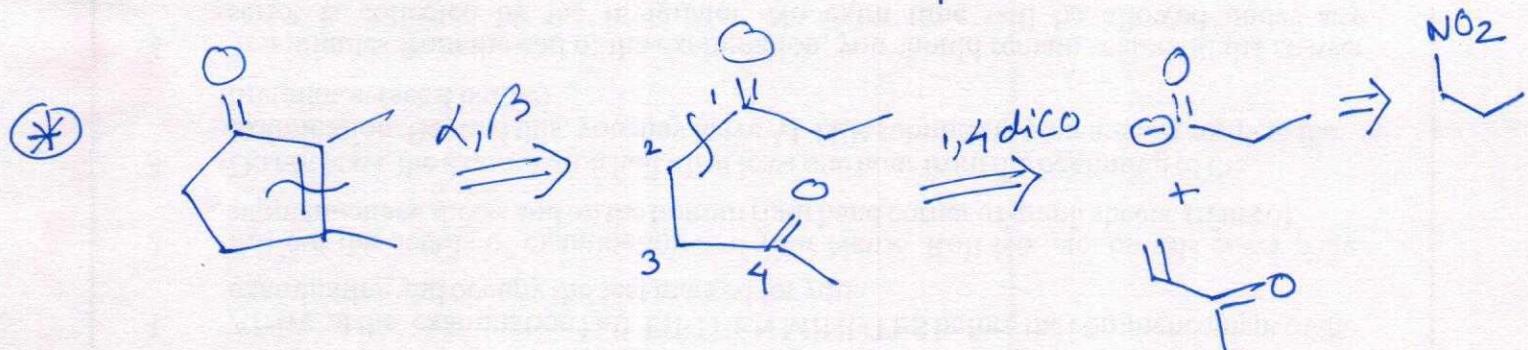
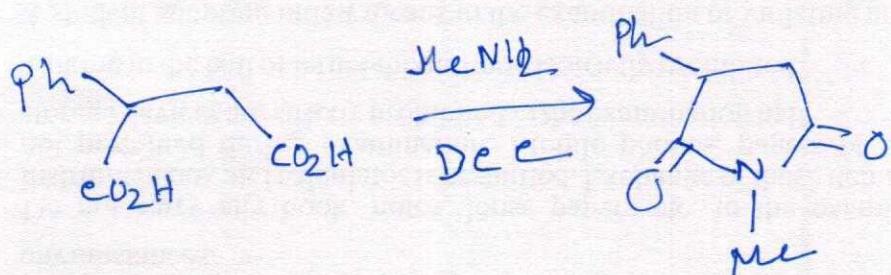
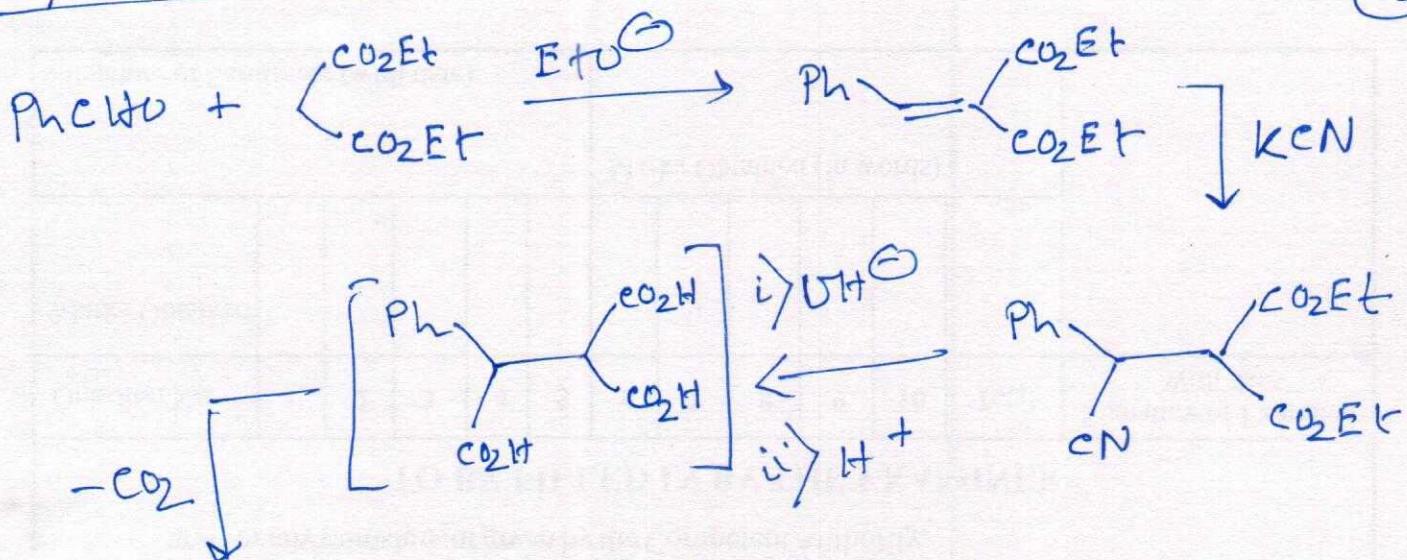
(61)



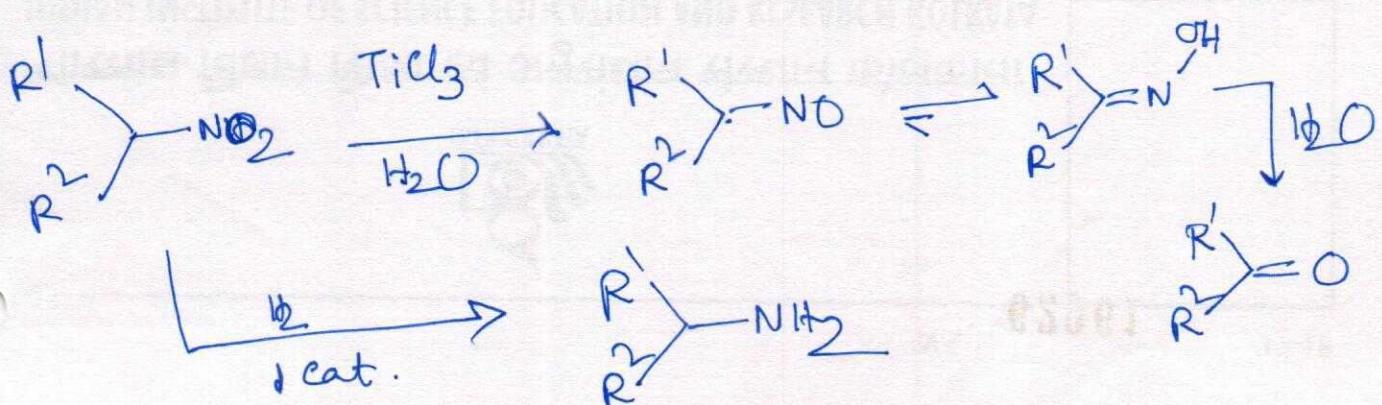
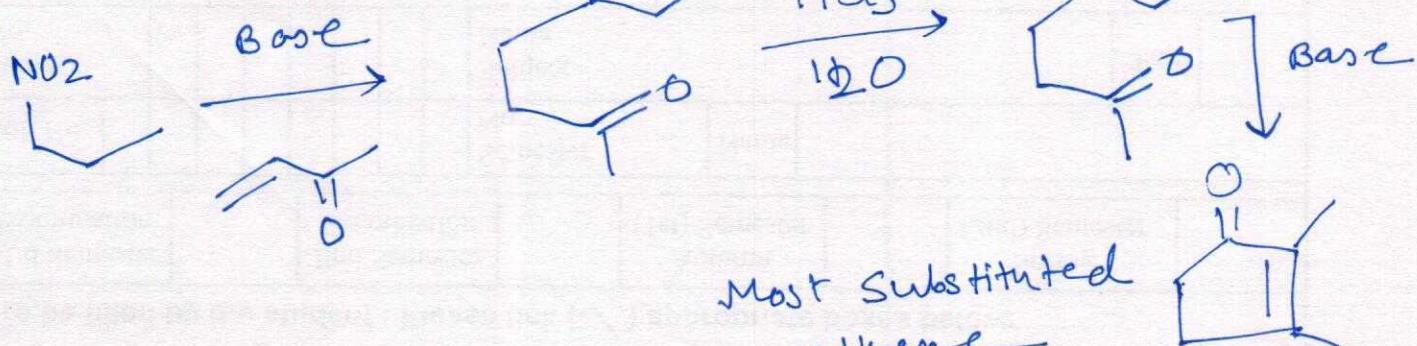
unnatural Nucleophilic Synthesis:

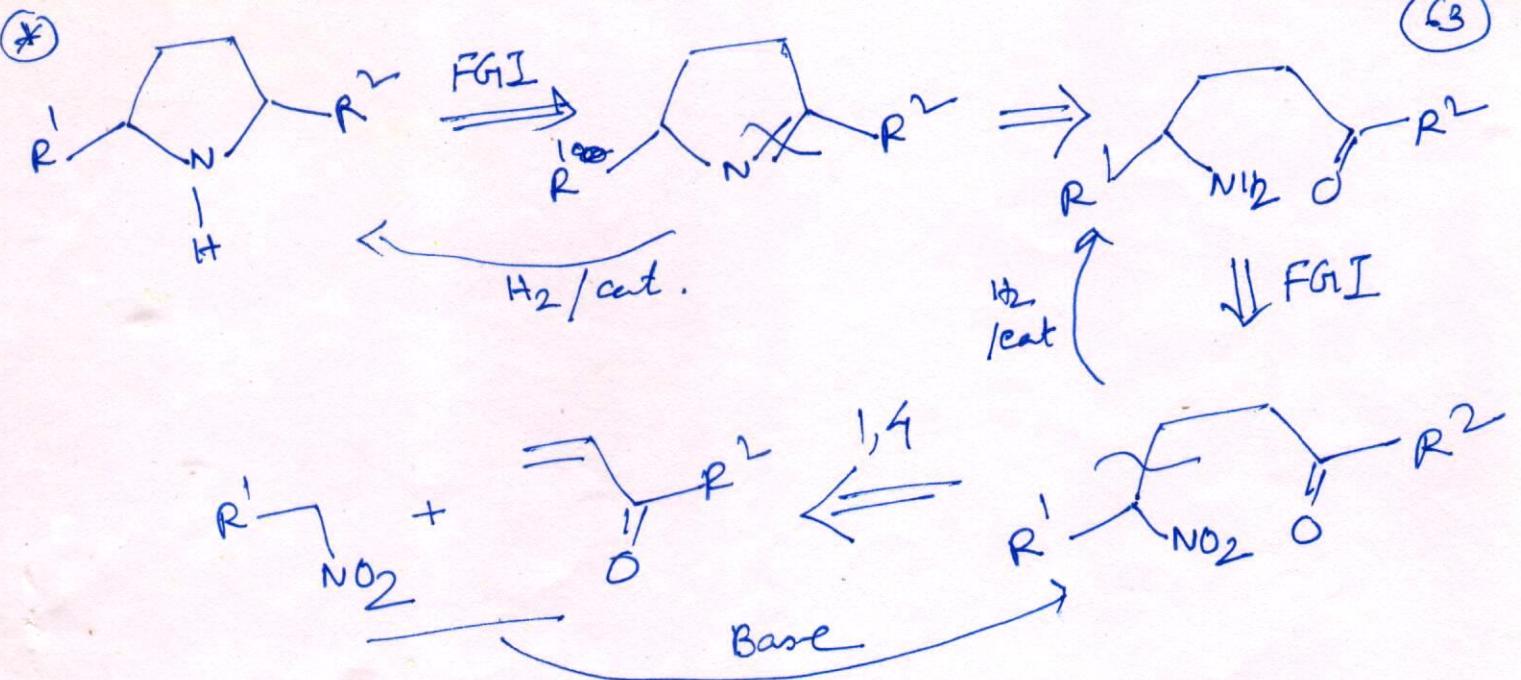


Synthesis:

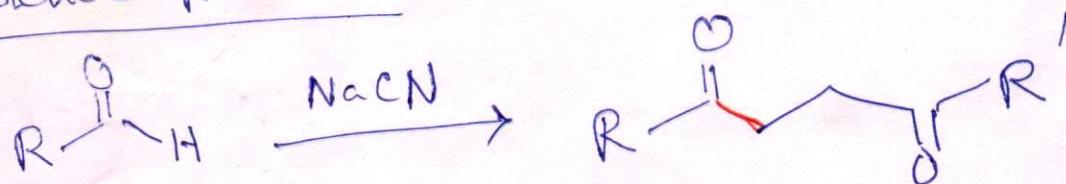


Synthesis

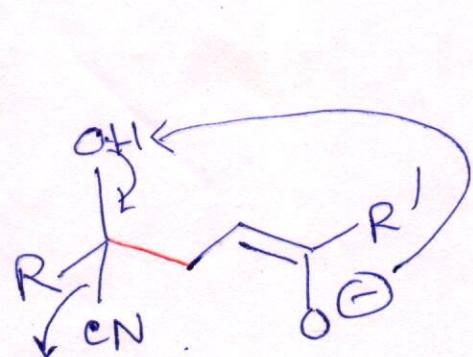




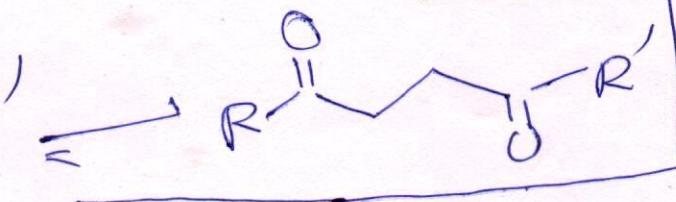
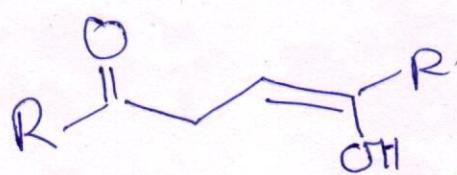
Stetter Reaction:



Mechanism:



Acyl Anion equiv.



Benzoin