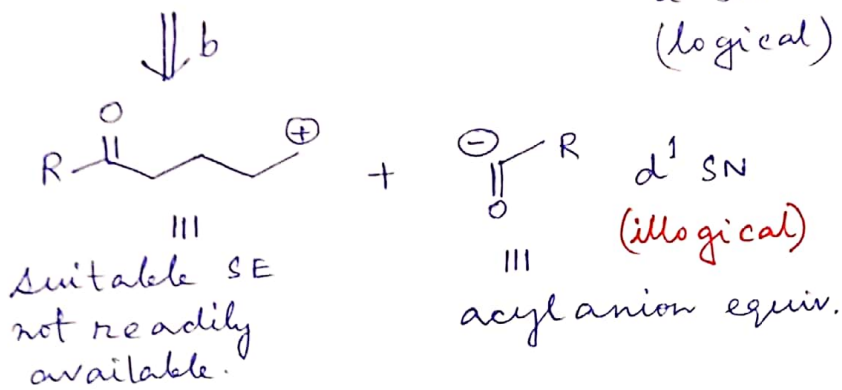
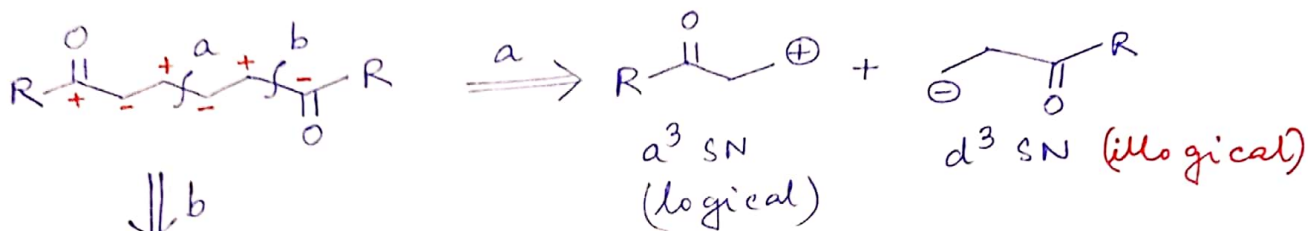
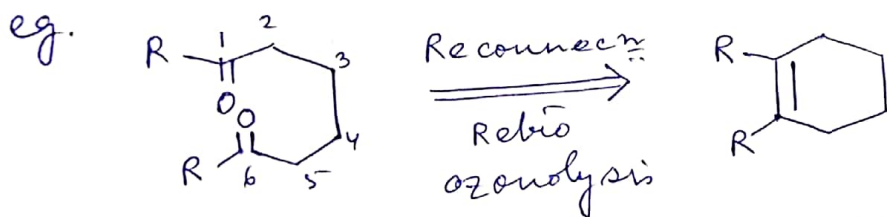


Retrosynthetic Analysis of 1,6-dicarbonyl compounds: Reconnection



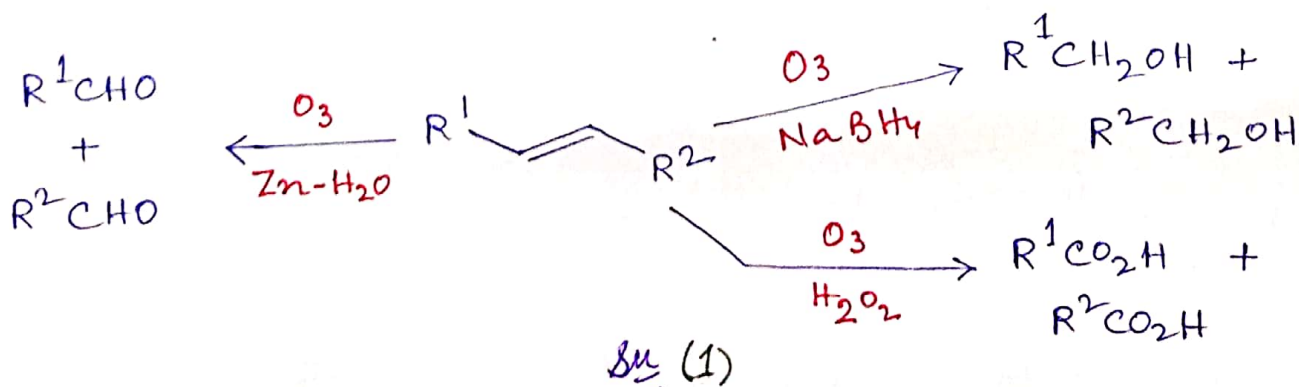
Just like the other 1,n-diCO (n=even) disconnections, here also one of the two SN(s) is illogical, so, the disconn. is

illogical and such situation is taken care of by considering a reconnection between the termini.

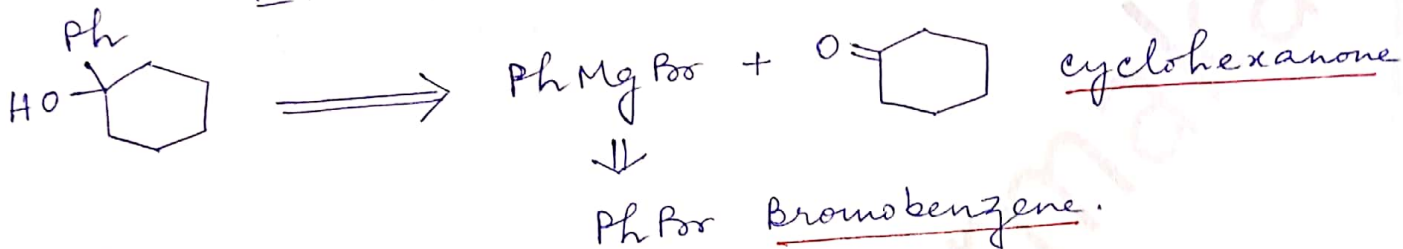
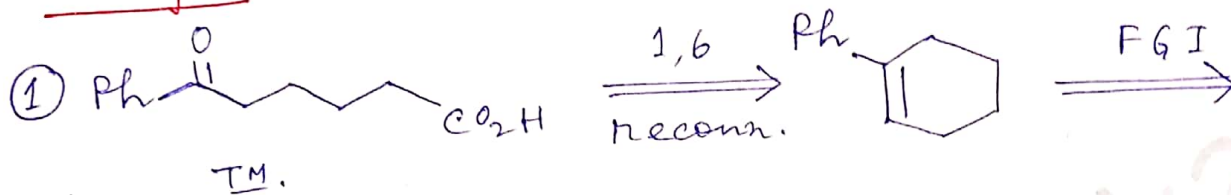


Ozonolysis is one such reaction where forward reaction breaks a double bond to form two molecules of carbonyls, same or different, as the product. Thus reverse of ozonolysis indicates reconnection of the carbonyls.

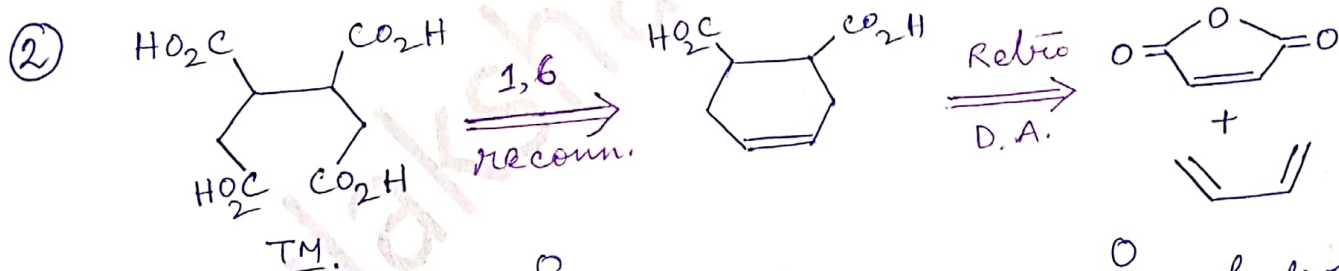
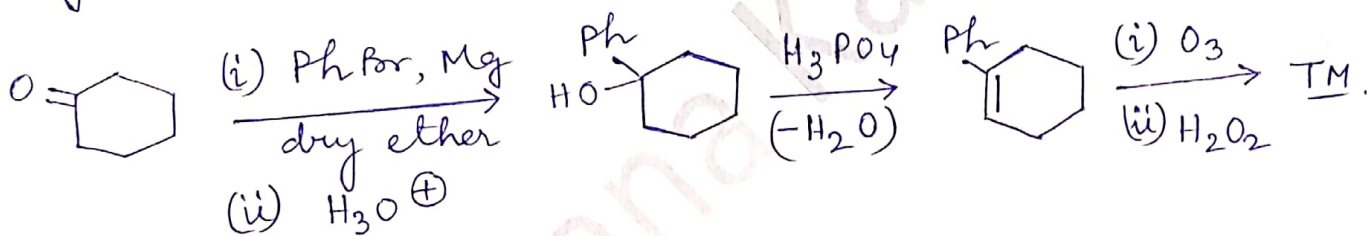
Products depend on the structure of the substrate and the reagent/condition of ozonolysis:



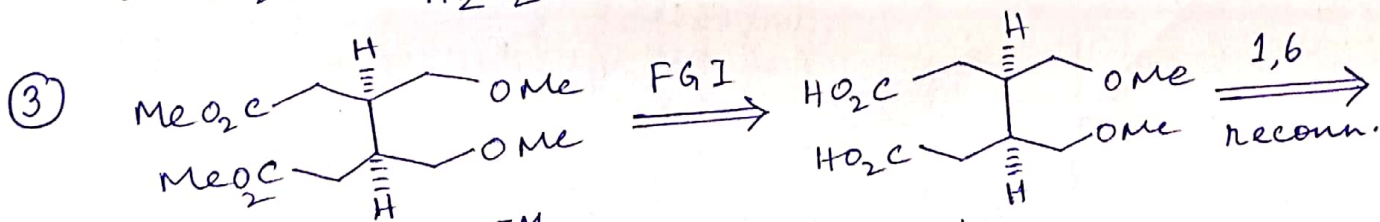
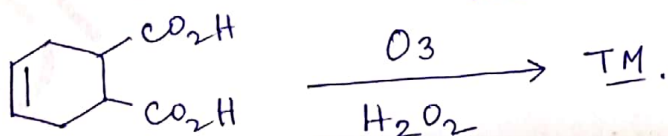
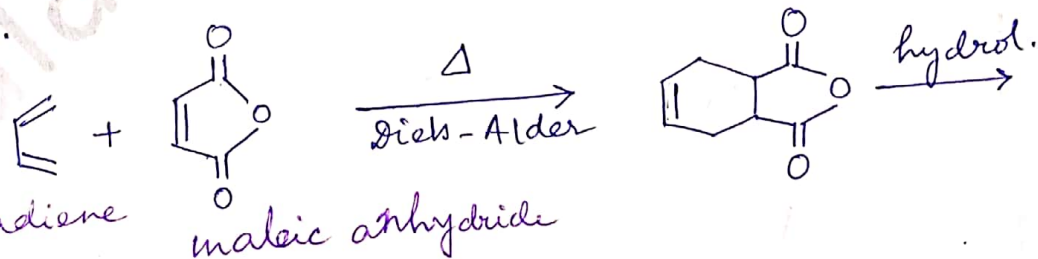
Examples:



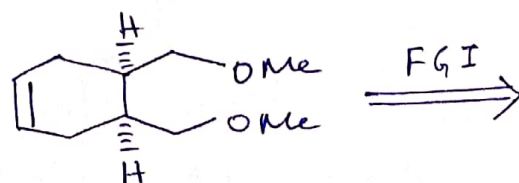
Synthesis:



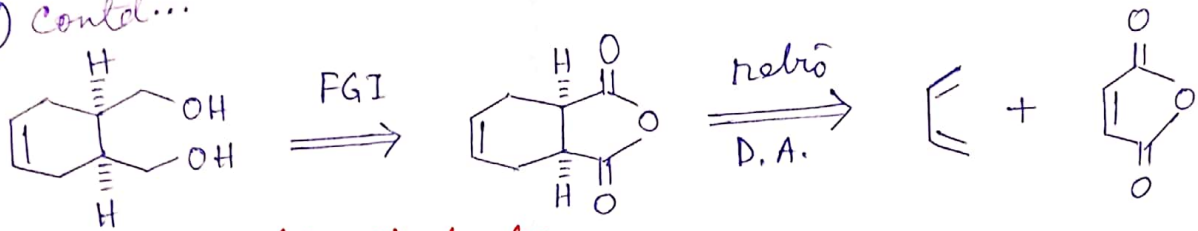
Synthesis:



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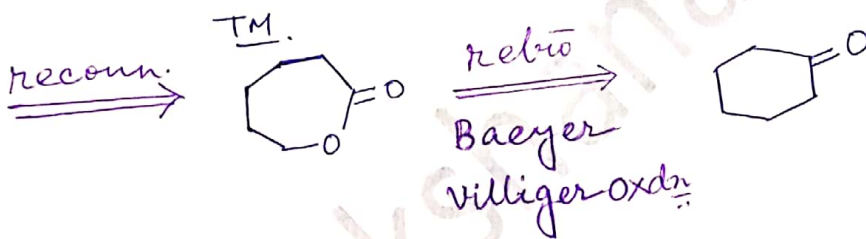
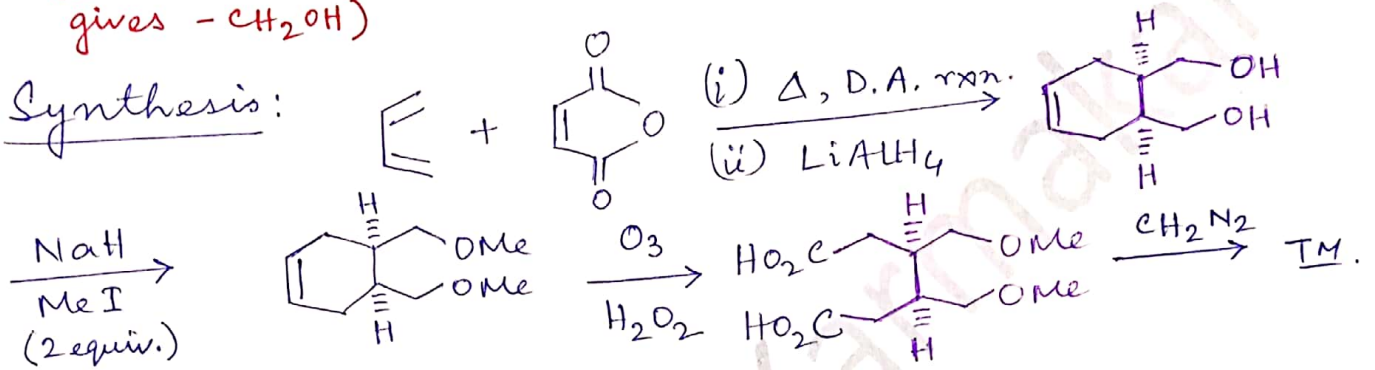


③ Contd...



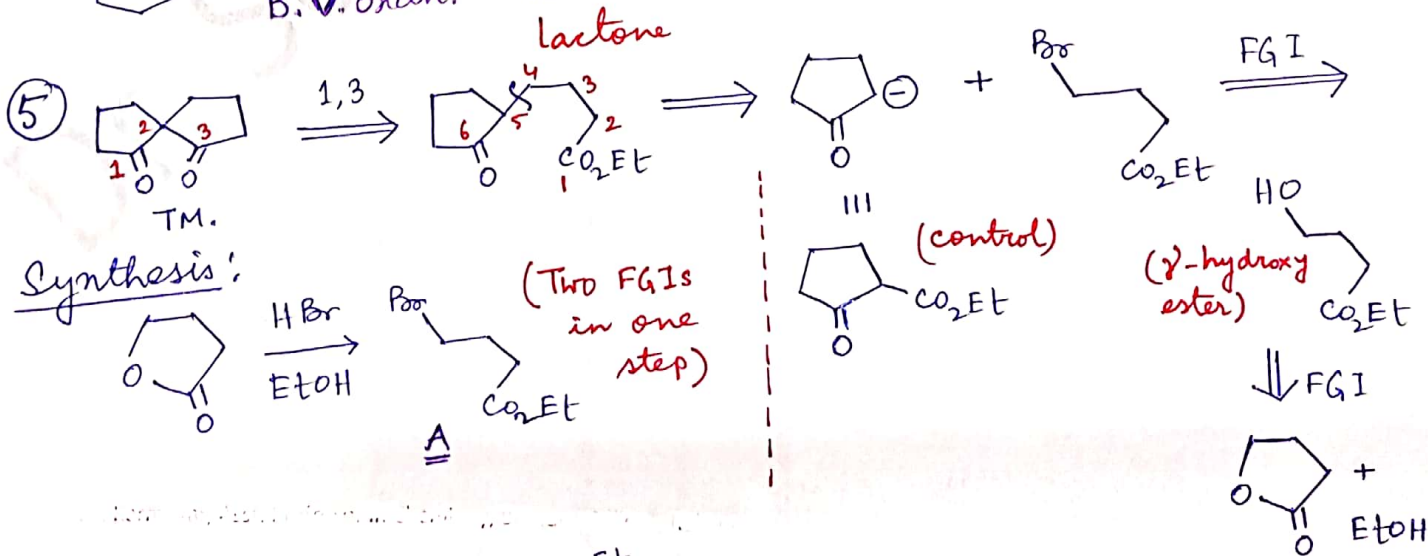
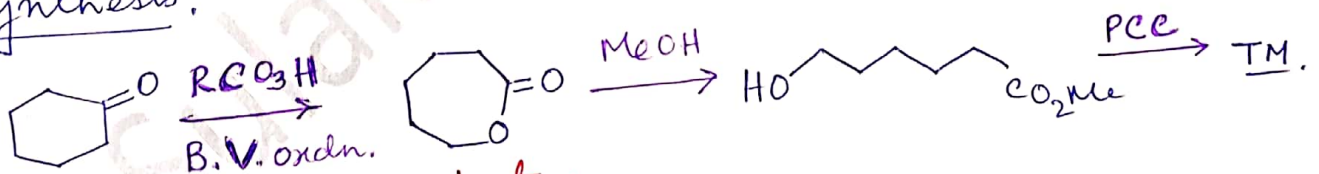
(Hint. reduction of lactone gives -CH₂OH)

Synthesis:



(Hint. alcoholysis of lactone ring forms hydroxy ester.)

Synthesis:



Synthesis:

