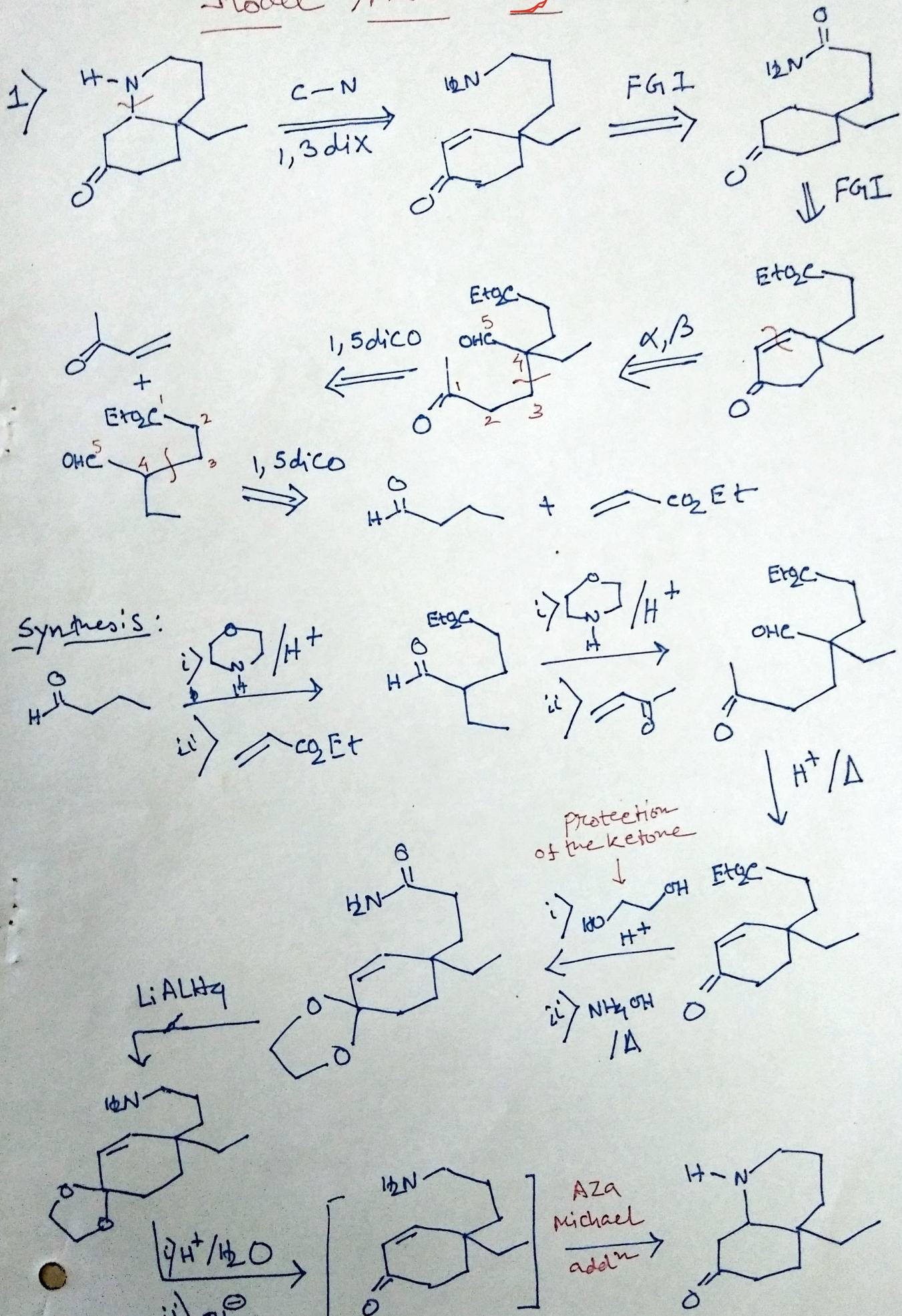
Model Answer-2



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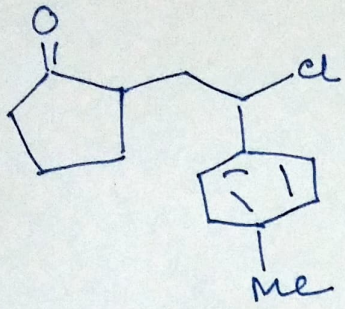
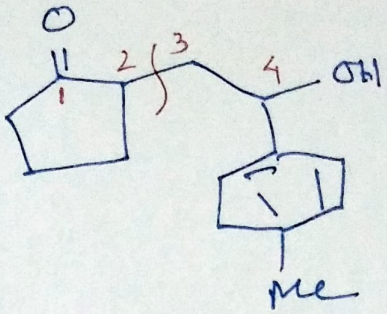
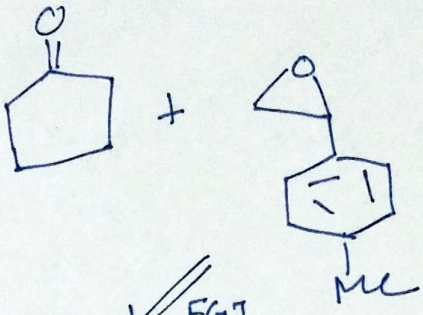


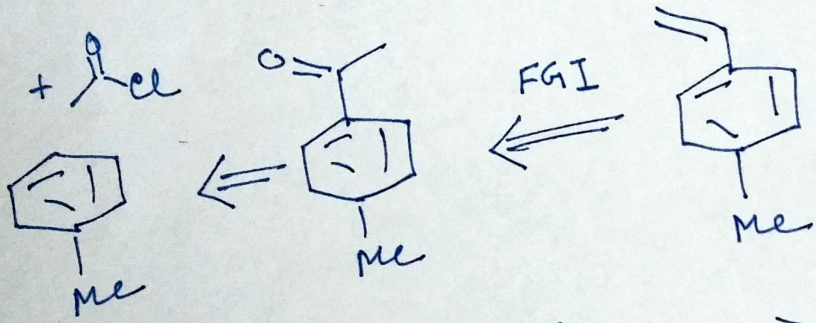
FGI



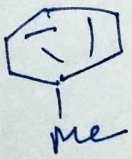
1,4 diCO

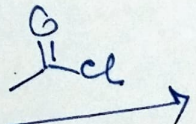


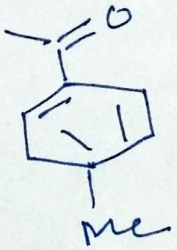
FGI



Synthesis :

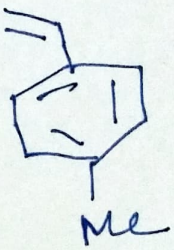




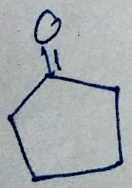


i) NaBH4

ii) H+/Δ

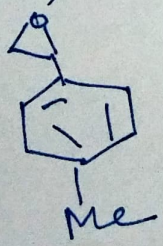


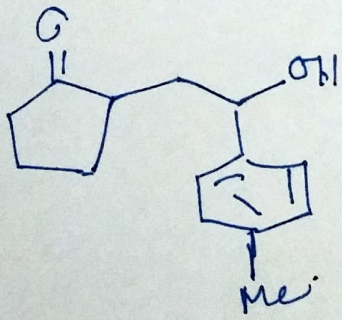
mCPBA

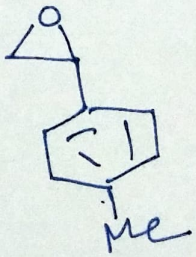


i) LDA

ii)



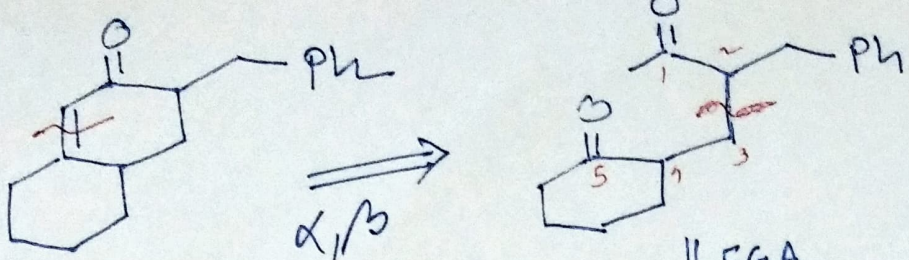


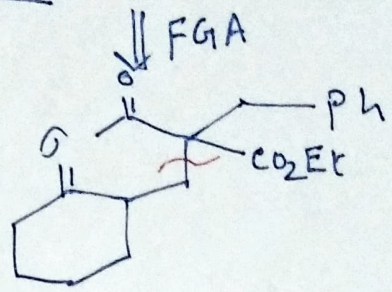


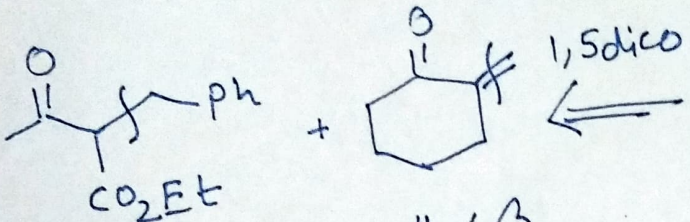
$SOCl_2$

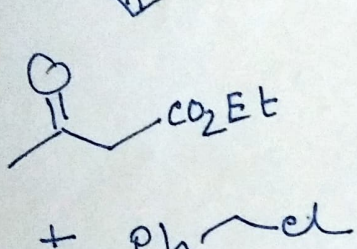
TM

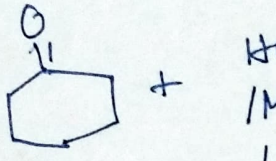
3)











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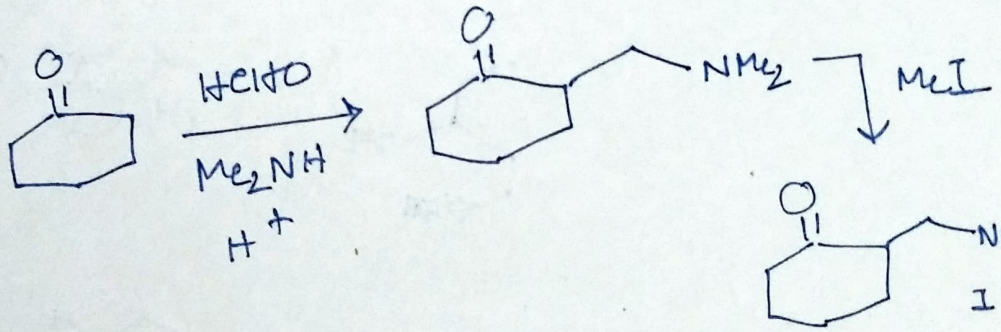
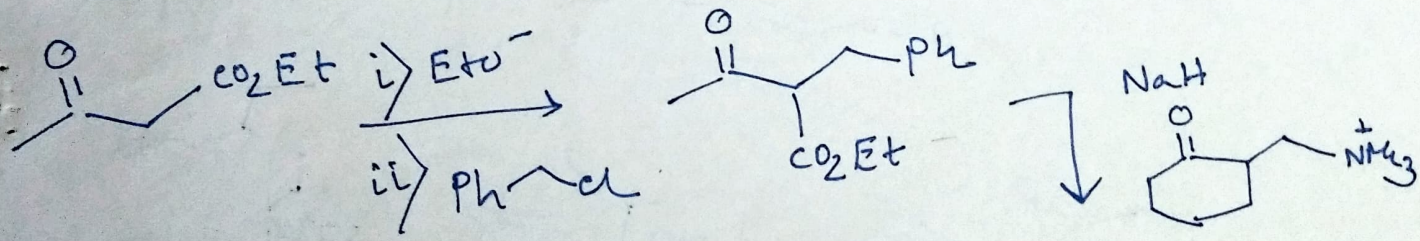
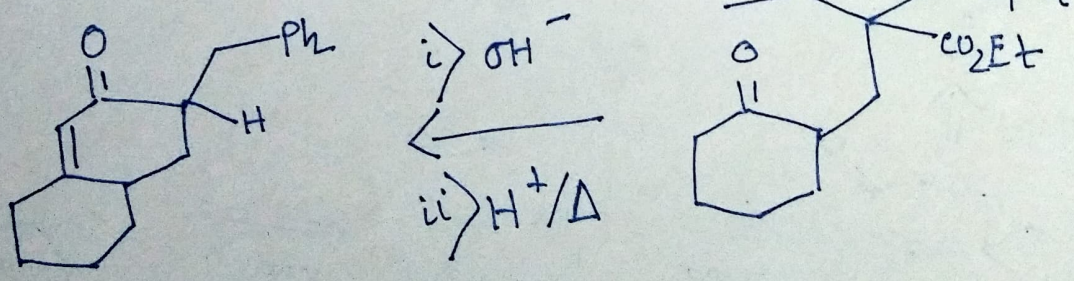




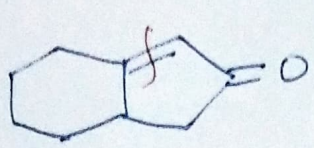


TM

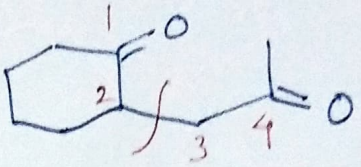
$-CO_2$

then intramolecular aldol cond^{n}

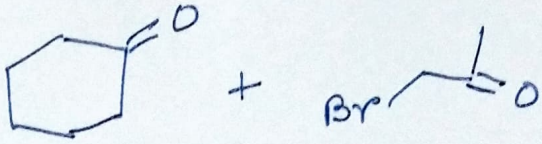
4)



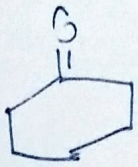
α,β



1,4 diCO

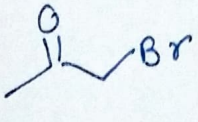


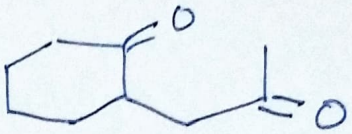
Synthesis:



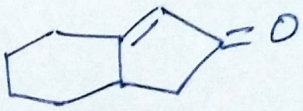
i) Me_2NH/H^+

ii)



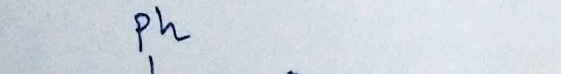


H^+/Δ

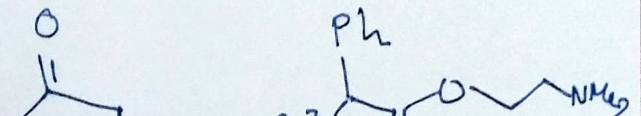


TM

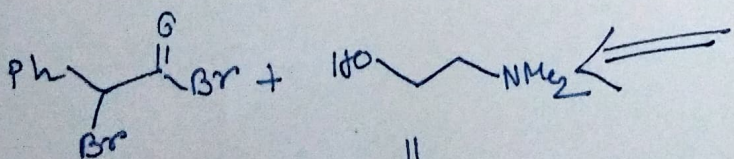
5)

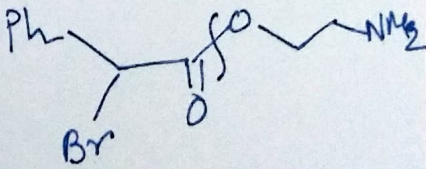


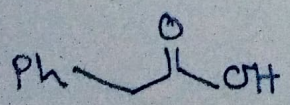
1,3 dio

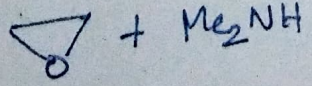


FGI

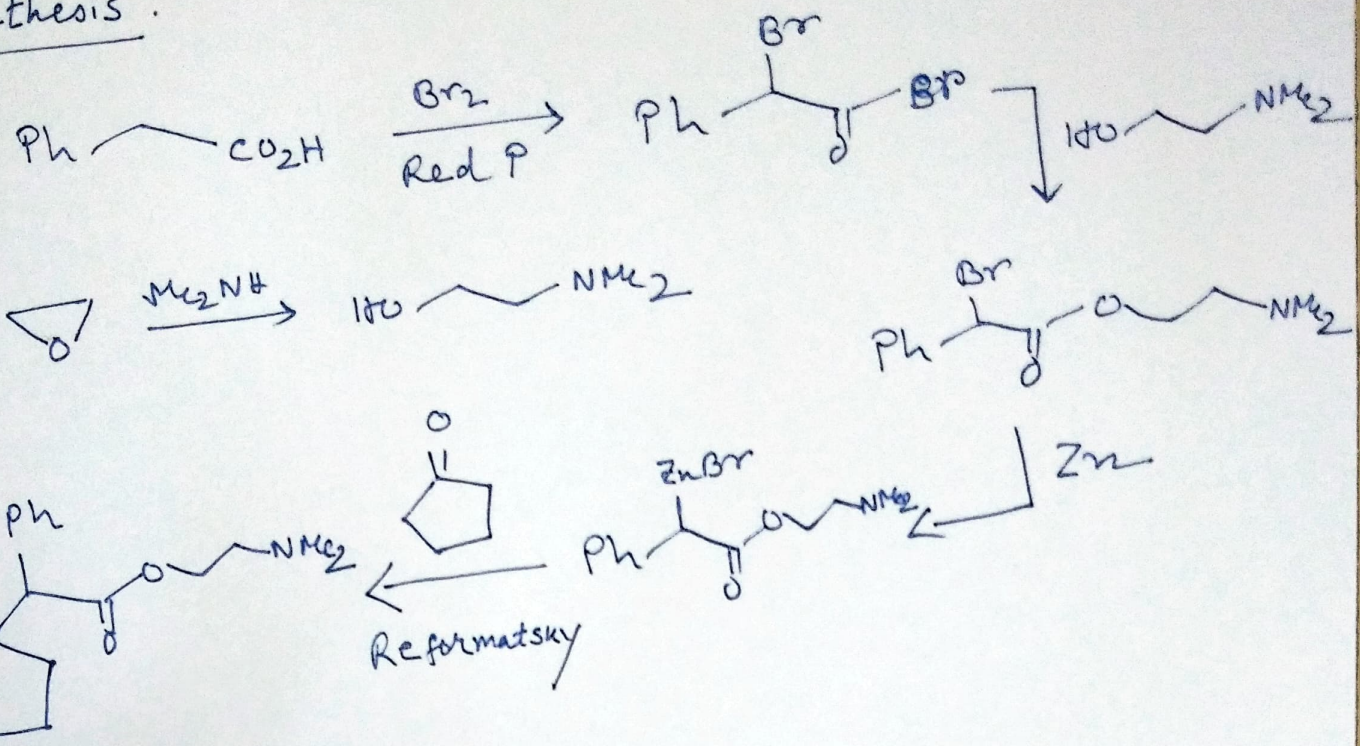




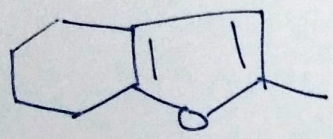




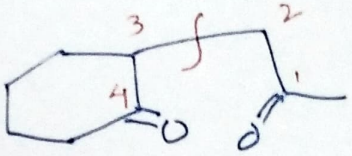
5) Synthesis :



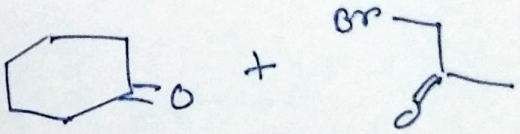
6)



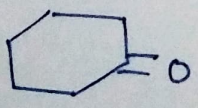
FGI



⇓ 1,4 diCO

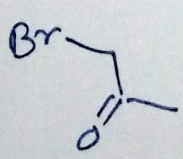


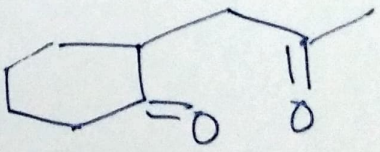
Synthesis :



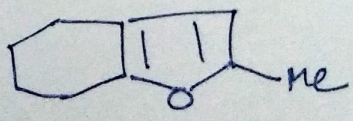
i) Me_2NH/H^+

ii)

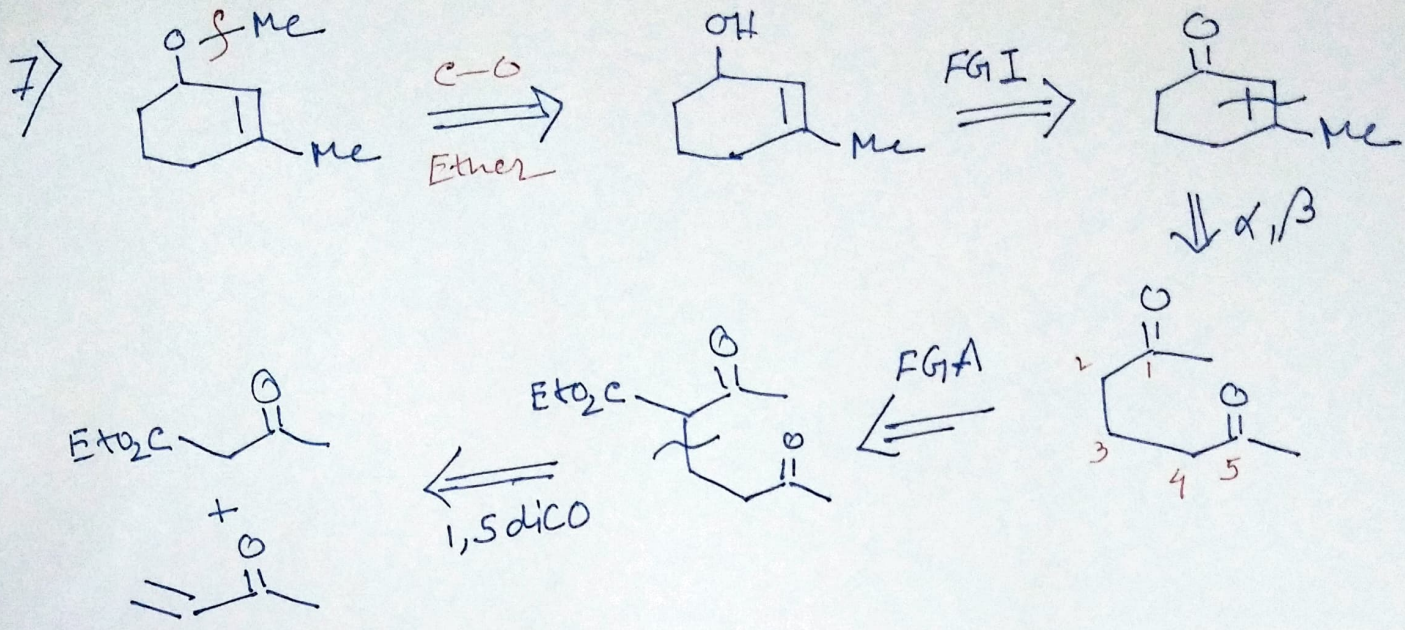


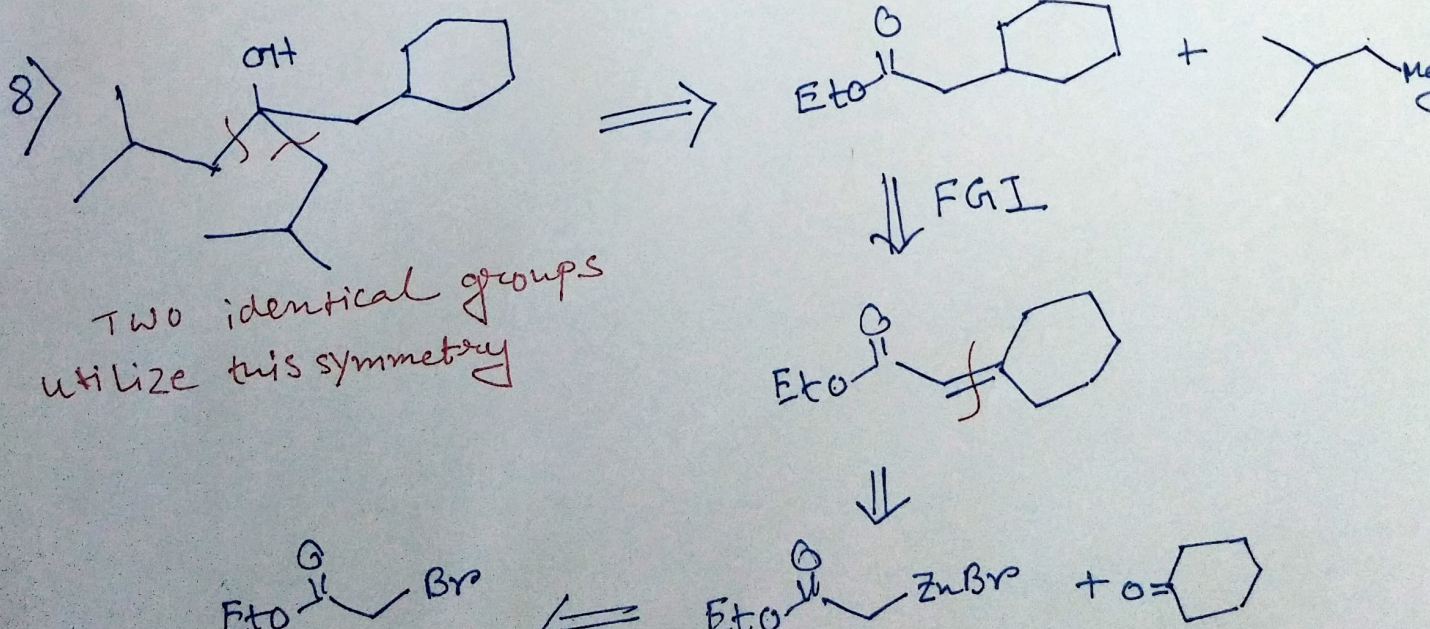


H^+/Δ

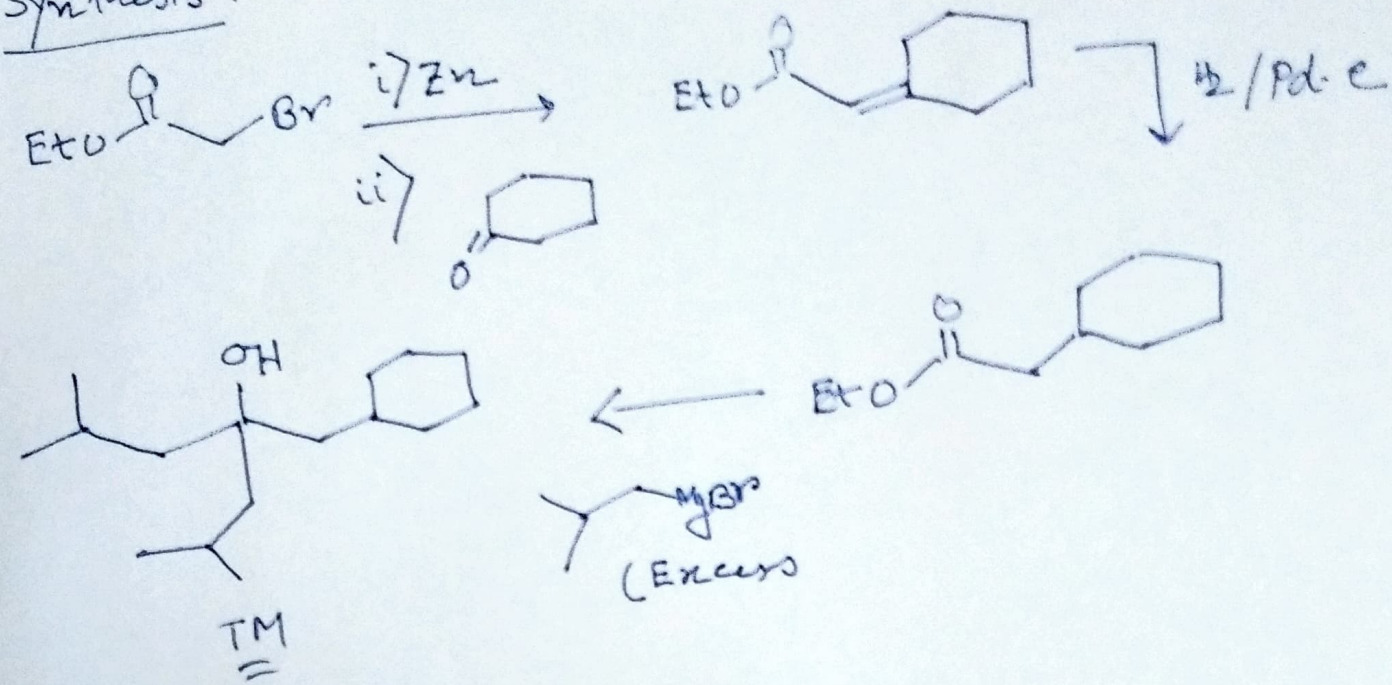


TM

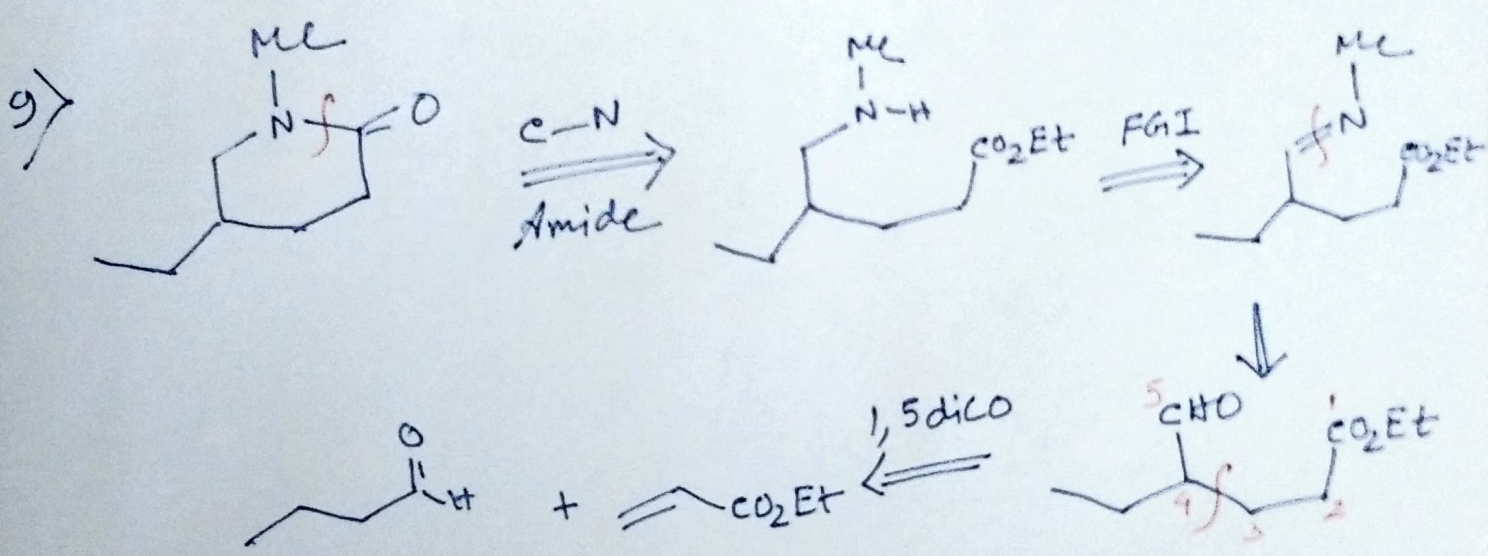

7)
C–O
Ether
FGI
α,β
FGA
1,5 diCO
Synthesis:
i) NaOEt
ii)
i) OH⊖
ii) H+
NaBH4
NaH
MeI
TM


8)
FGI
Two identical groups
utilize this symmetry

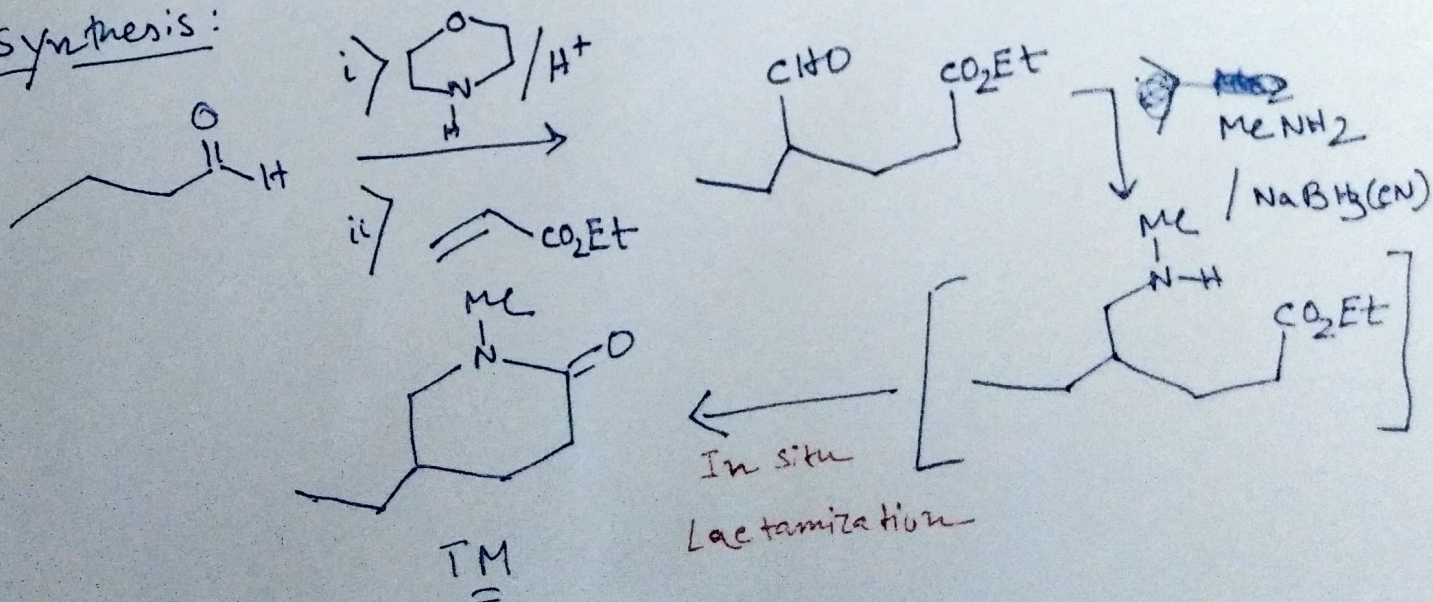
Synthesis :



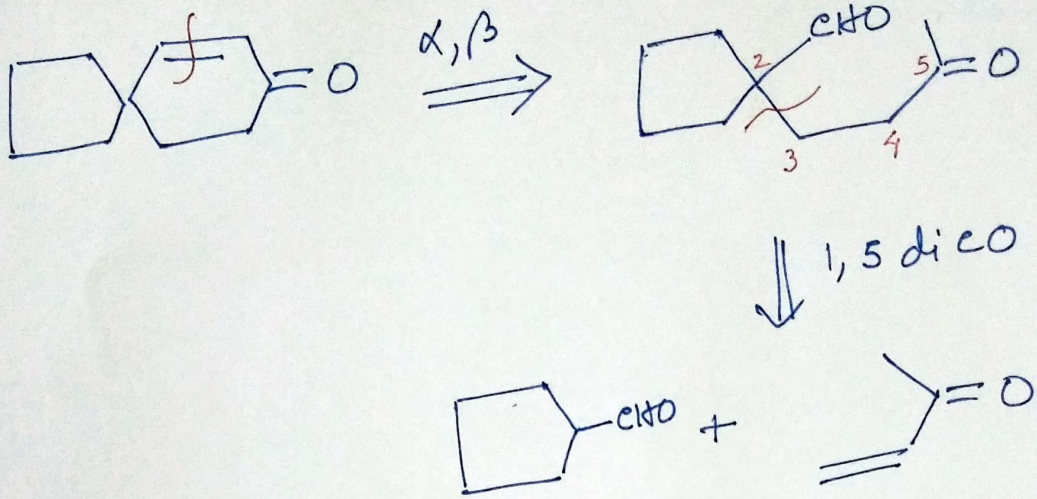
9)



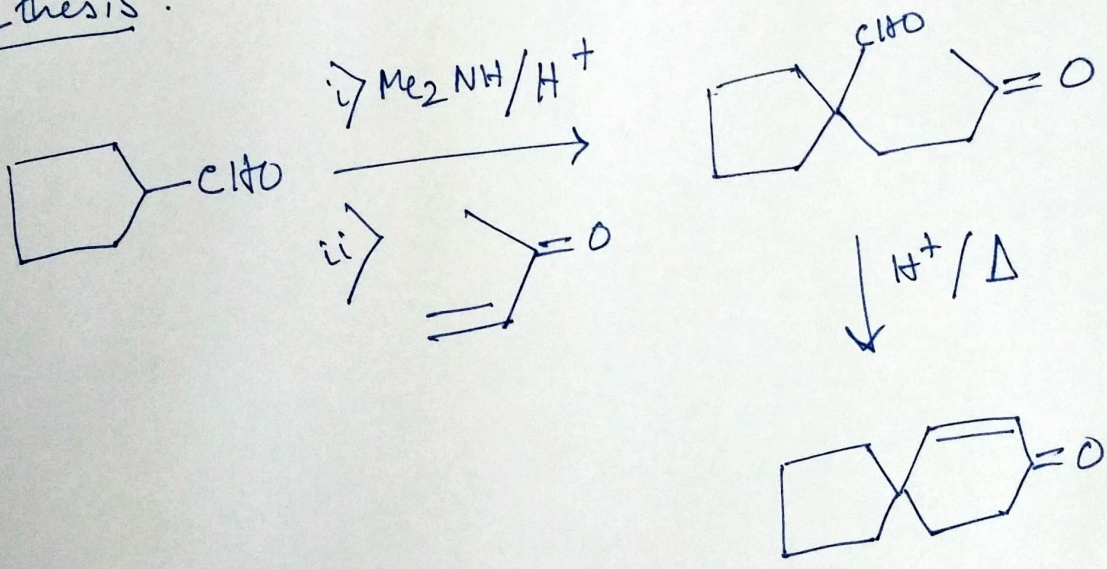
Synthesis :



10)



Synthesis:



TM