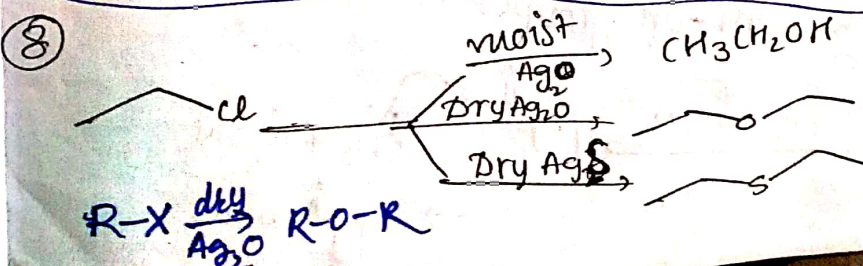
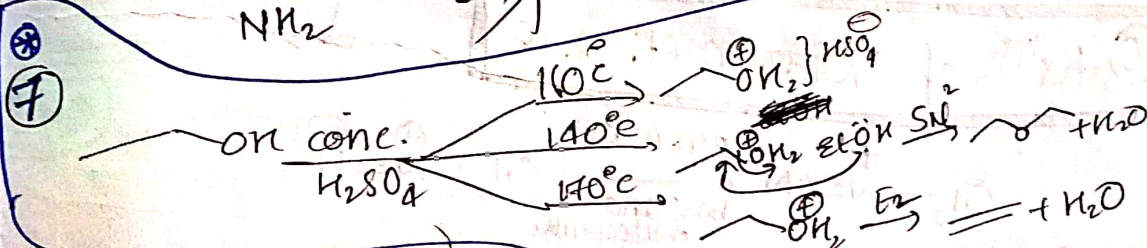
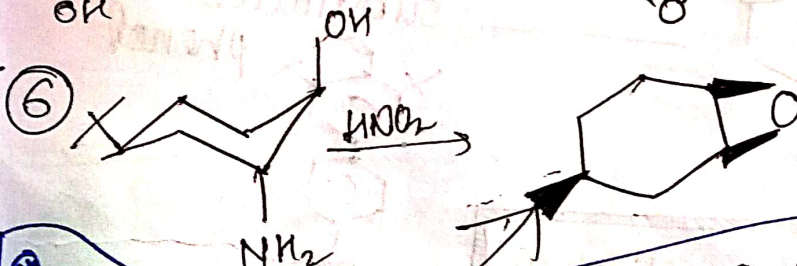
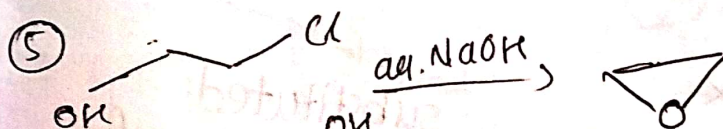
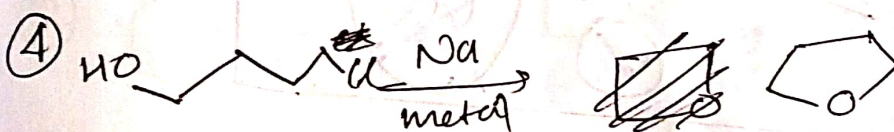
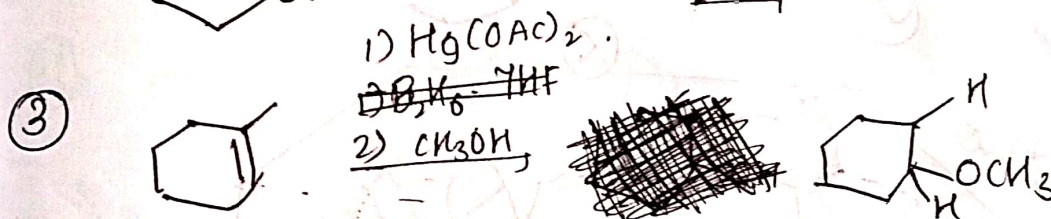
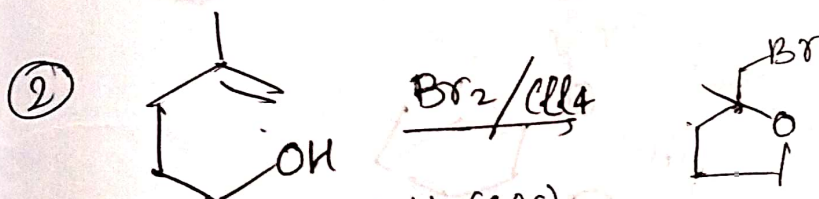
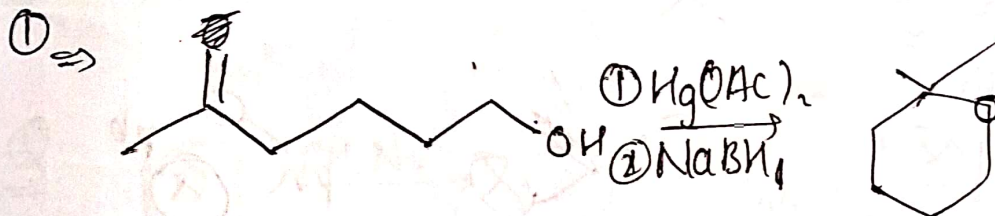
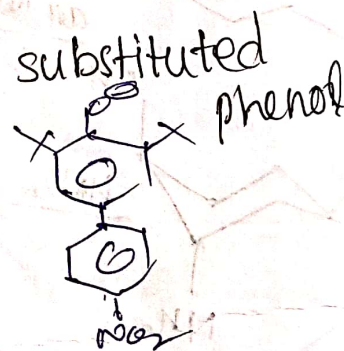
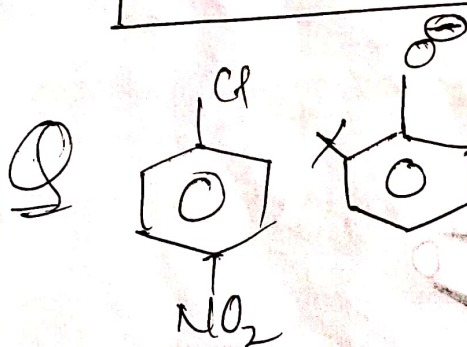
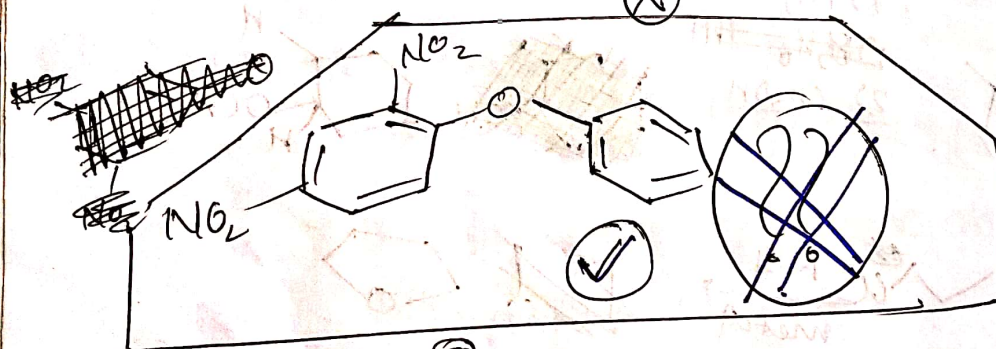
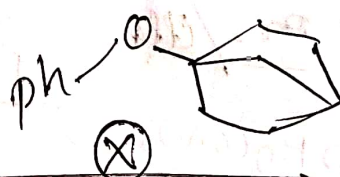
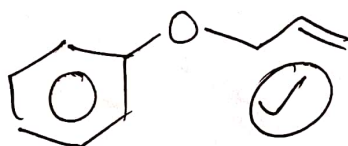
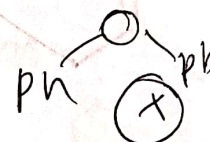
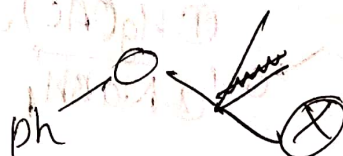
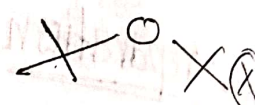
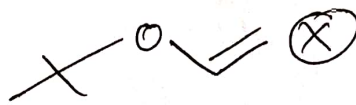
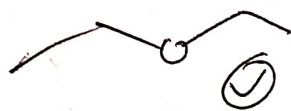


Ethers

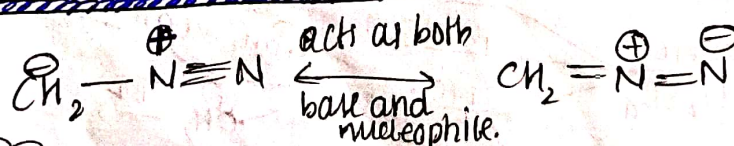
Preparation



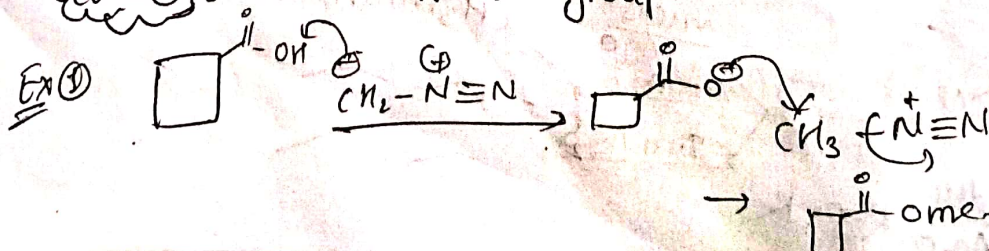
9) Williamson Ether synthesis

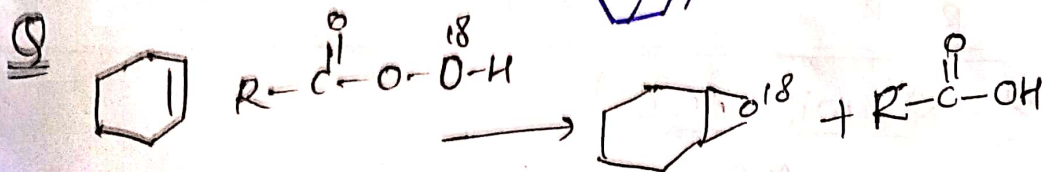
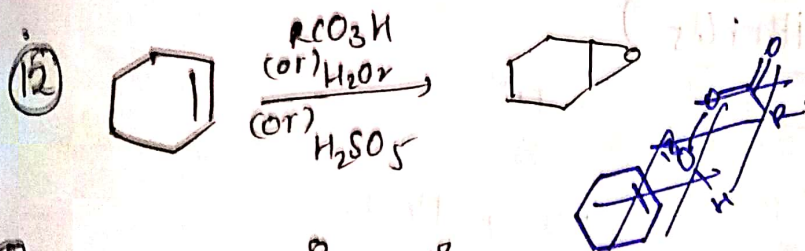
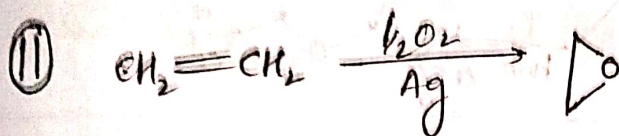
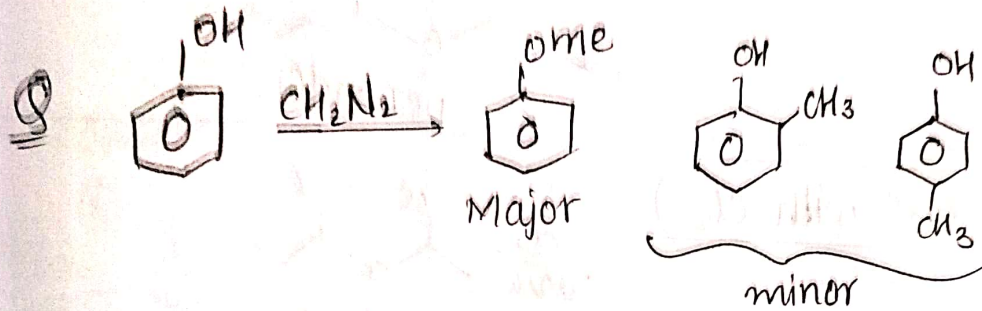
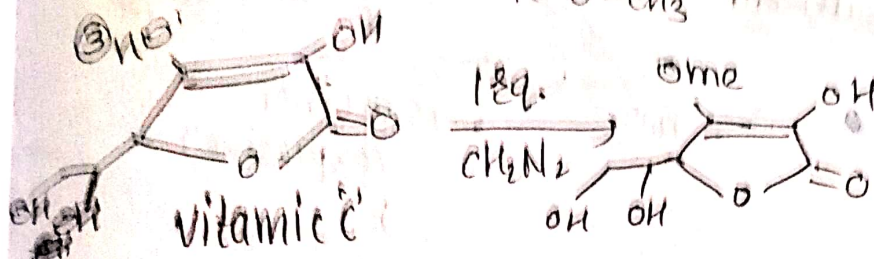
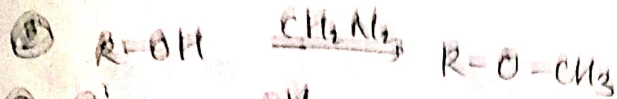


10) Rxn^s of Diazomethane

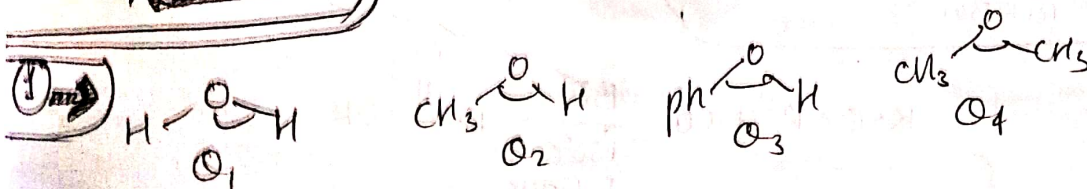


Ex 1: Base with -OH groups.

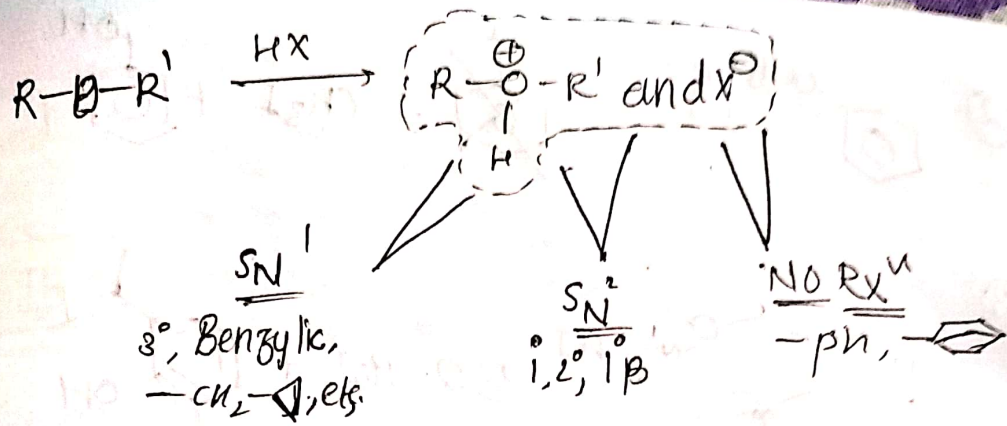




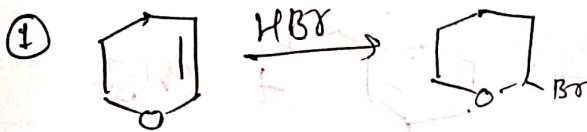
Properties



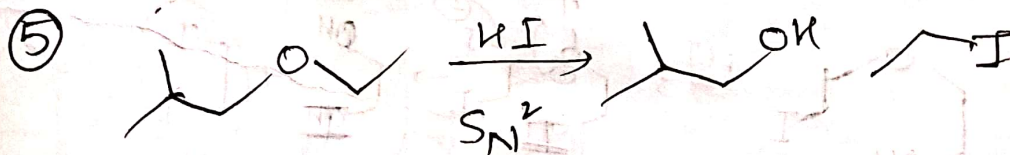
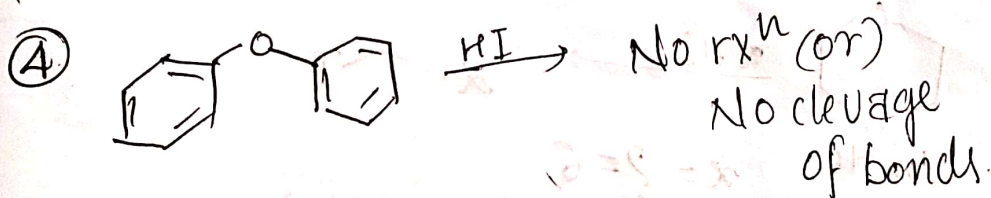
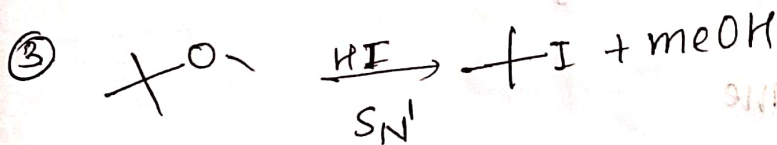
$\alpha_1 < \alpha_2 < \alpha_3 < \alpha_4$



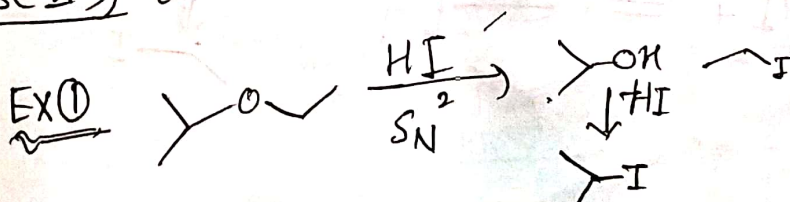
Examples

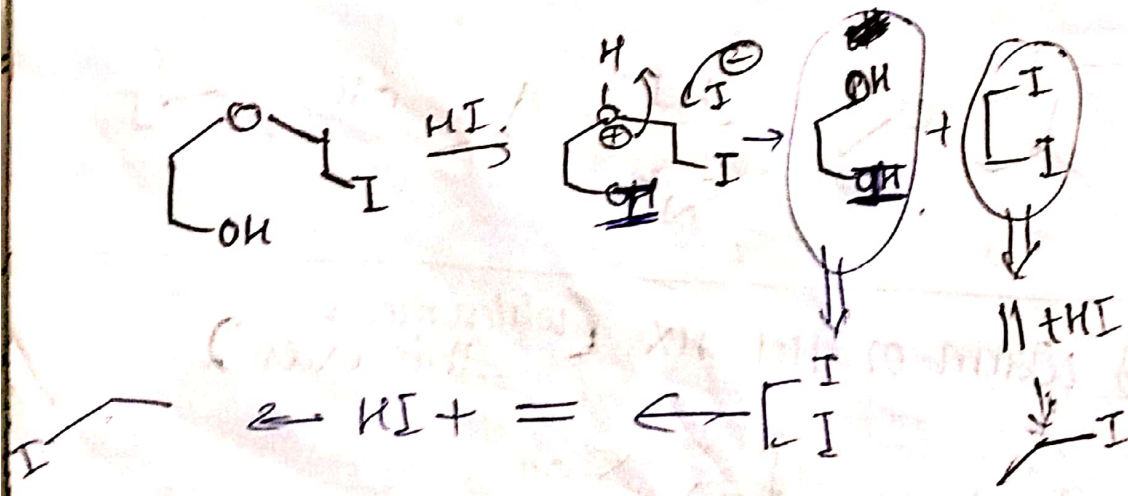
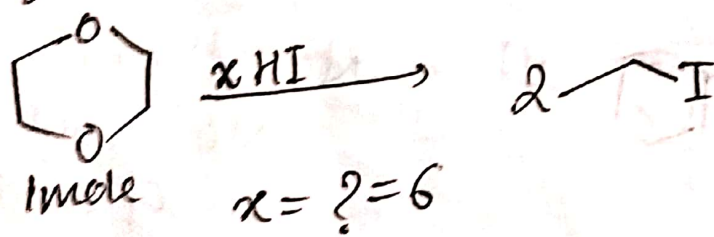
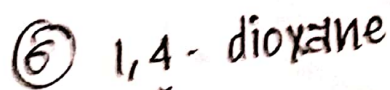
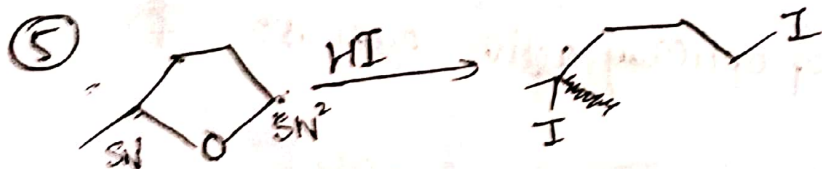
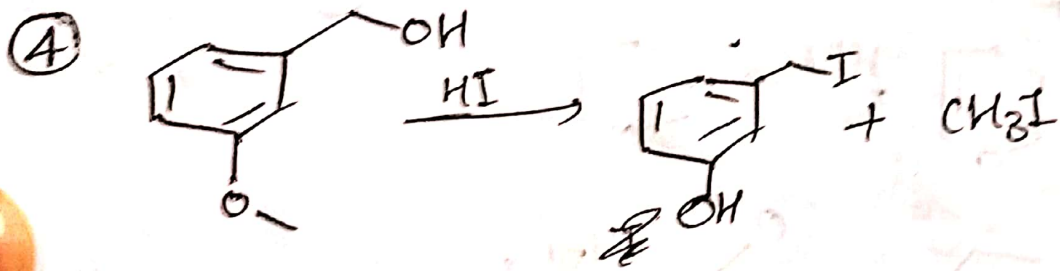
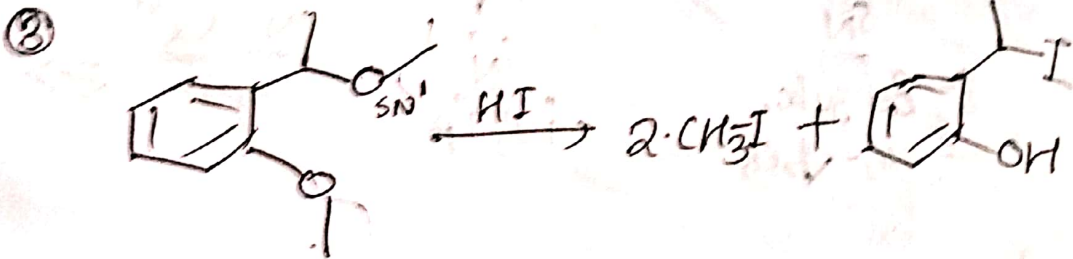


No. of optically active products:- ④



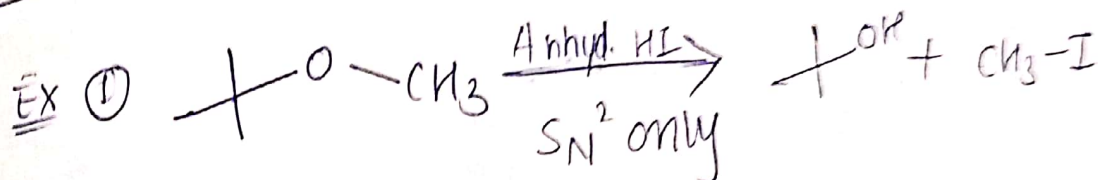
Case II) Warm or Hot HX (which means it is excess)







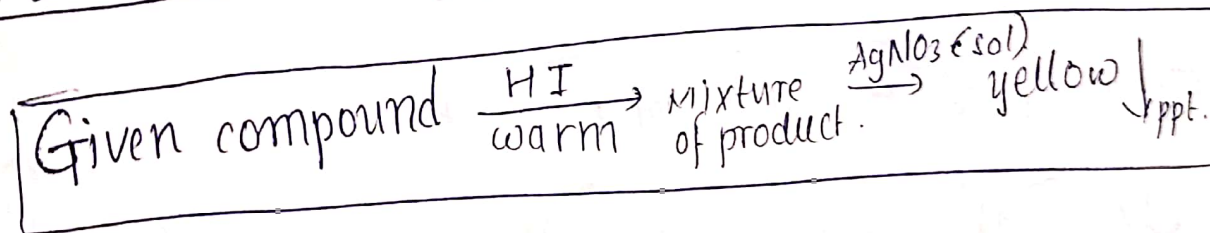
Case III) Anhydrous HX



②

properly
② Zeisel's method

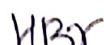
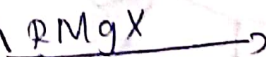
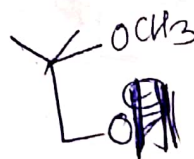
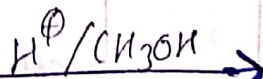
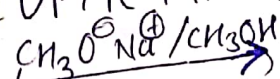
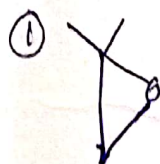
Best method for identification or detection of methoxy groups on arenes.

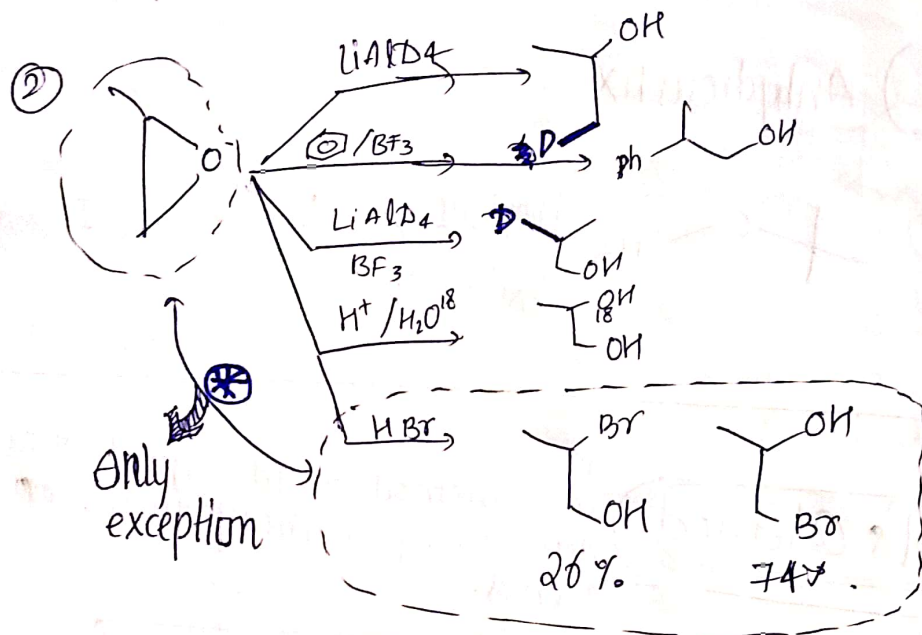
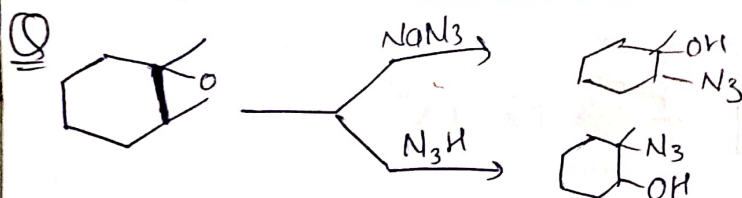


Q₁

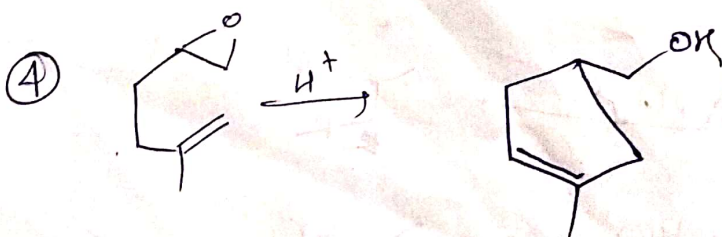
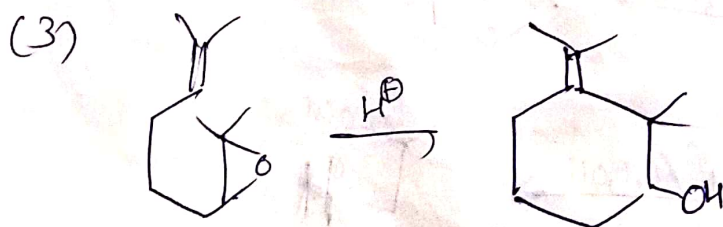
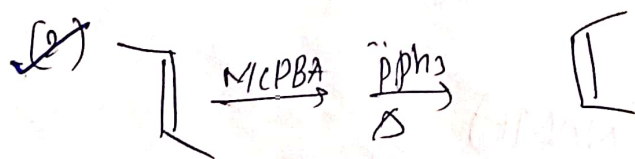
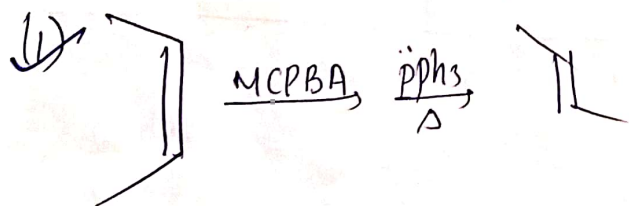


① Oxirane (IUPAC NAME)

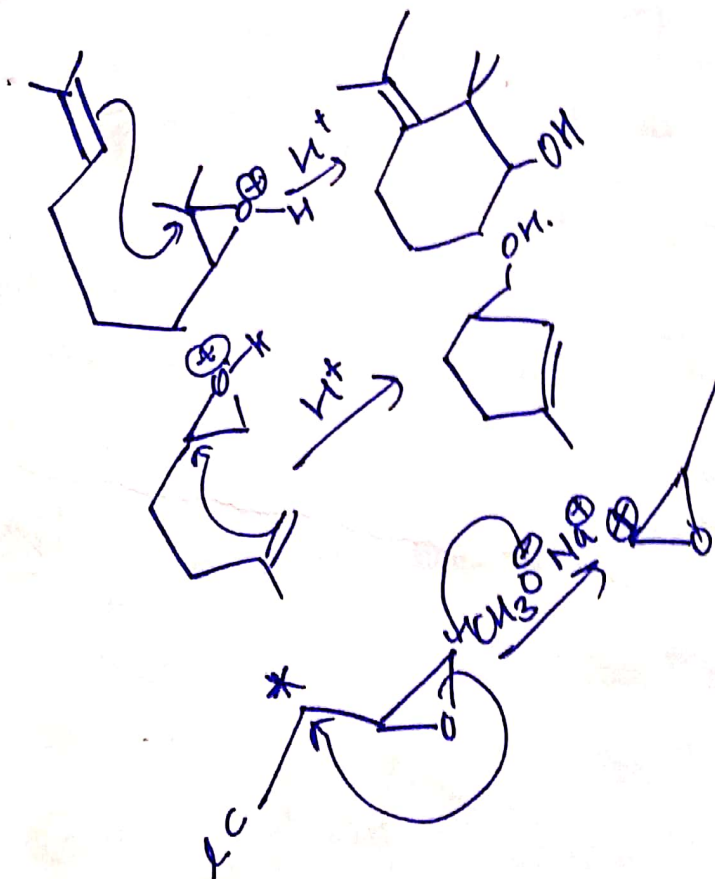
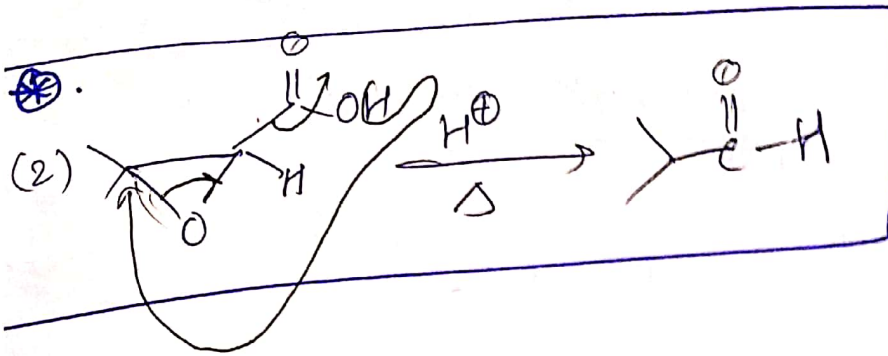
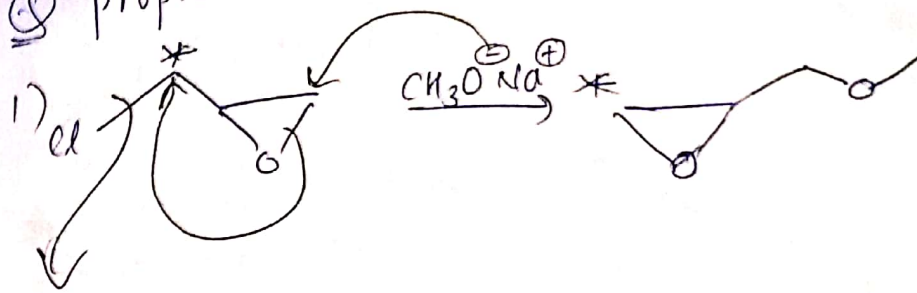




③ propose product or products.



⊙ propose mechanisms

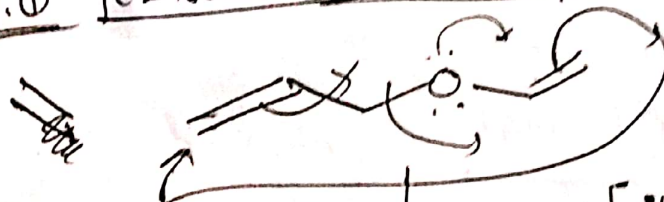


During cleavage of Epoxide in basic medium
if any leaving group is there - O⁻ reattacks
and forms ring again.

EX. ①

CLAISEN REARRANGEMENT N*

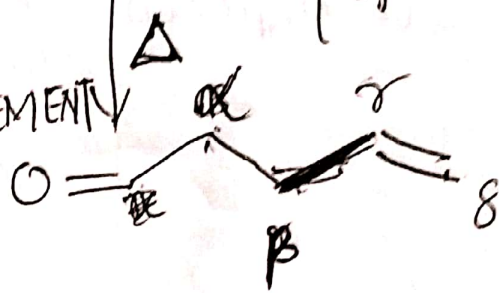
①



[cyclic 6MR TS#]

CLAISEN

REARRANGEMENT

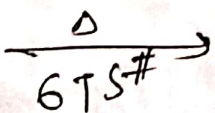
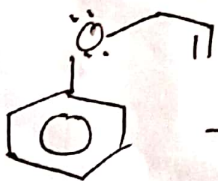


γ - δ unsaturated carbonyl compound.

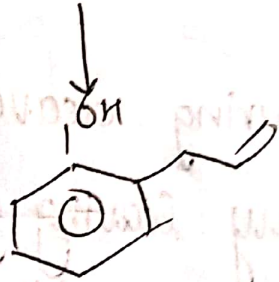
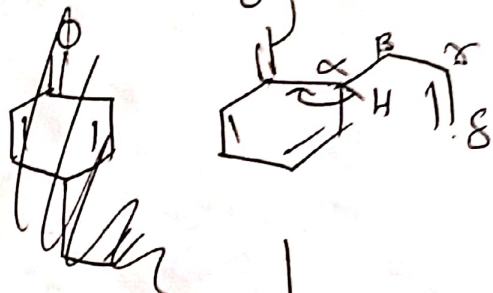
②



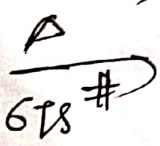
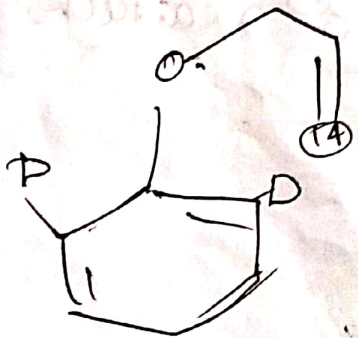
③



ALLYL ARYL ETHER



④



⑤ N*

