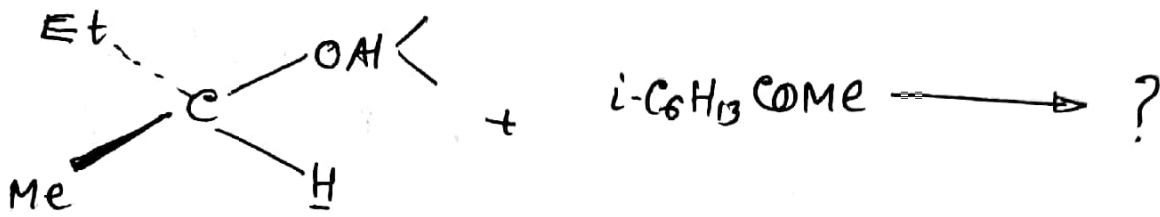
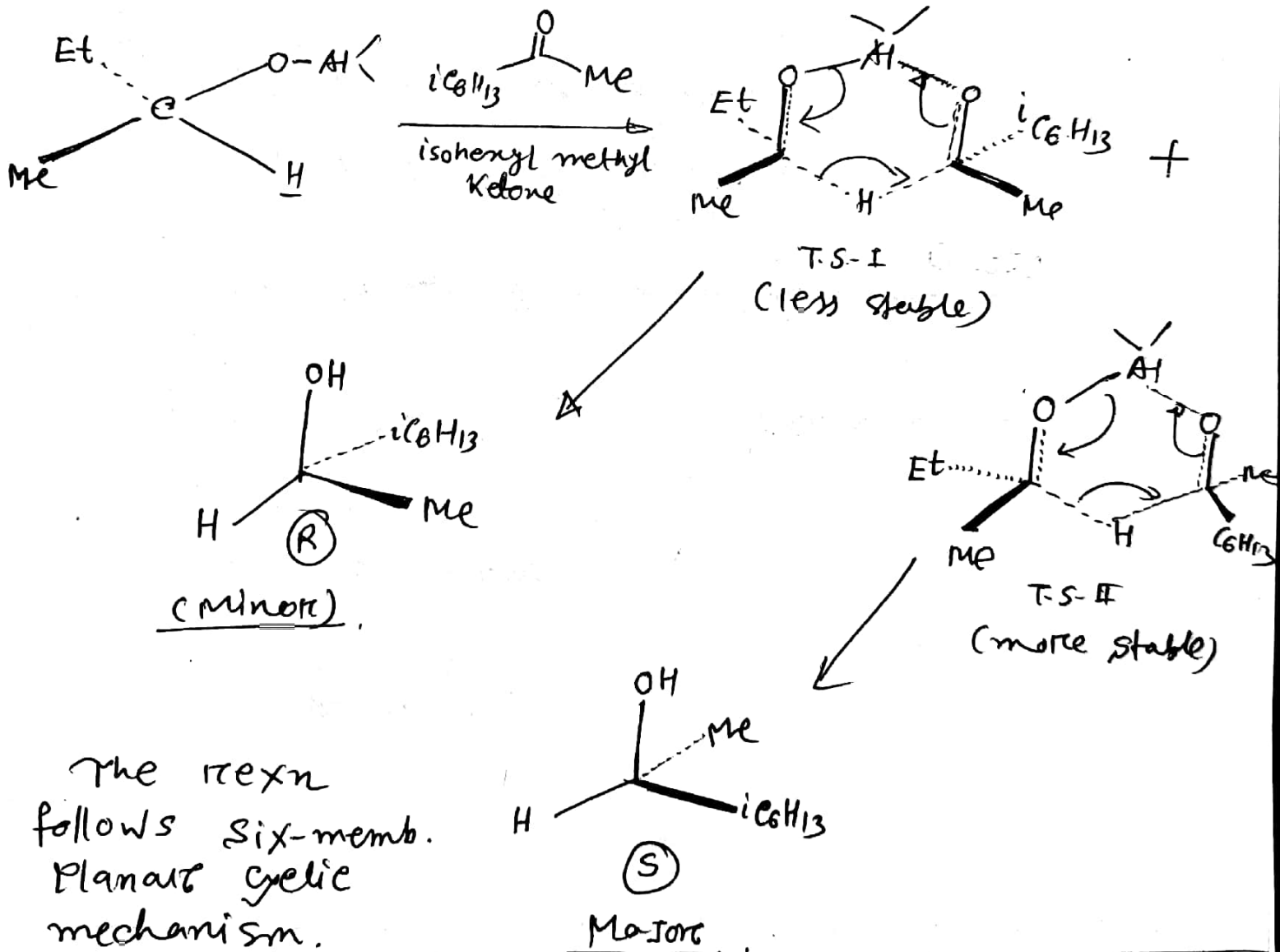


①

# 3rd Year Stereochemistry Problem



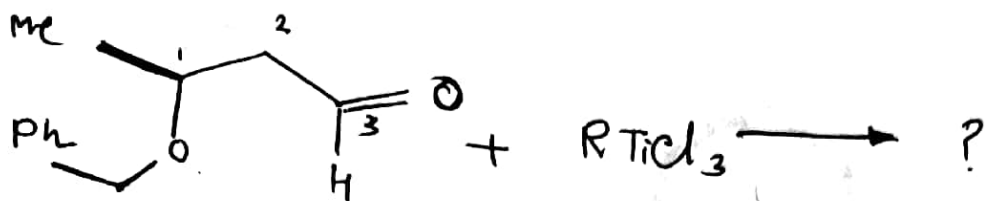
The above rxn is an example of kinetically controlled MPV reduction rxn. which is enantioselective synthesis.



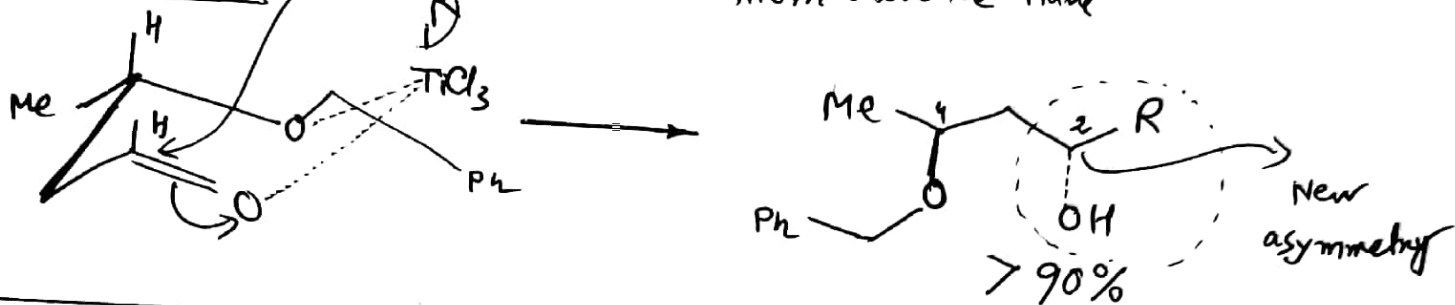
The rxn follows six-membered planar cyclic mechanism.

2.

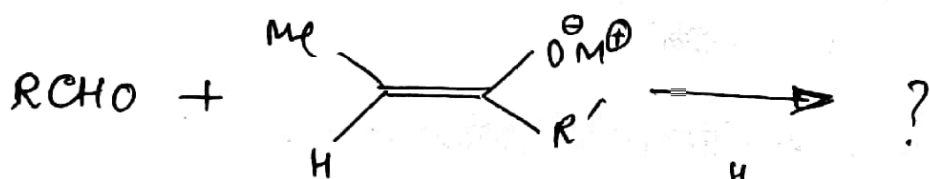
(2)



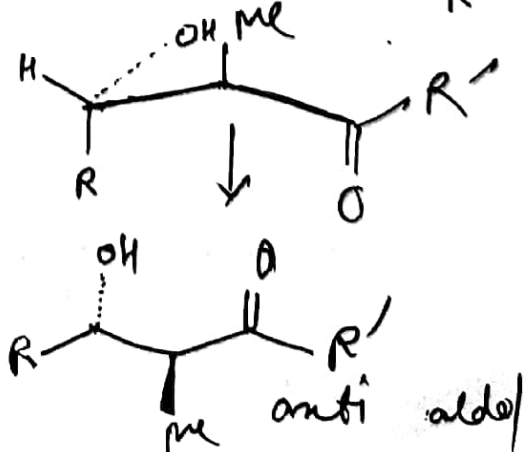
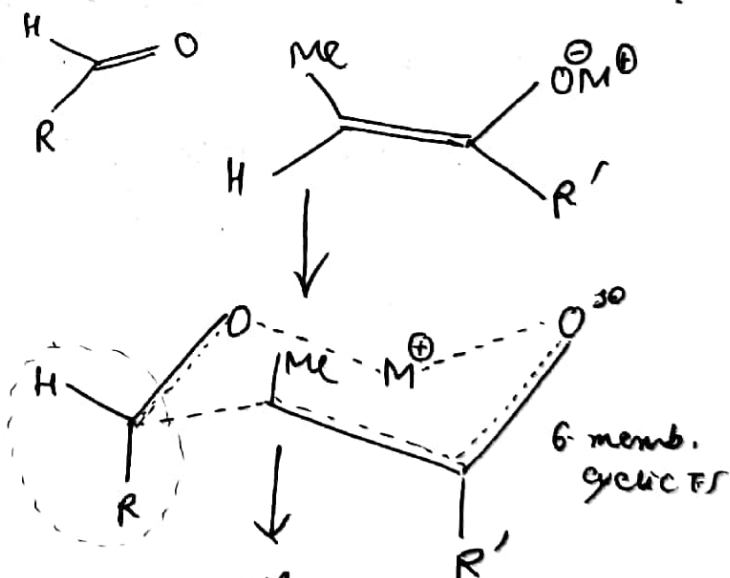
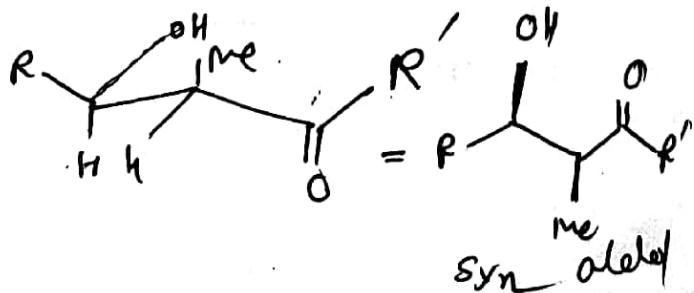
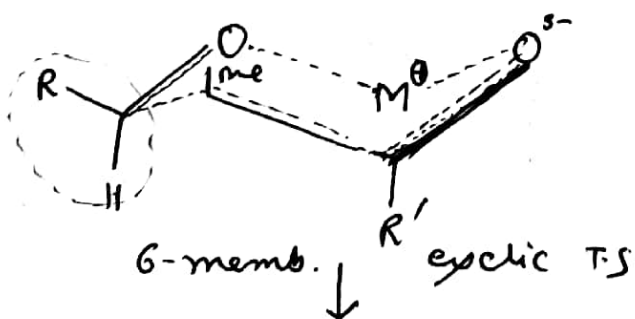
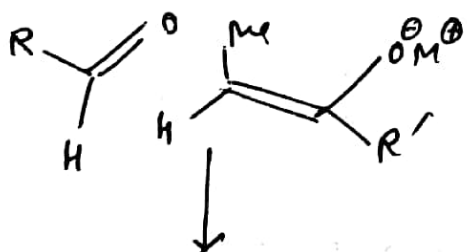
This is an example of 1,3-asymmetric induction → attack from above the plane



3. what are the probable stereochemistry of the product in the following rxn.



This 6-memb. cyclic TS known as Zimmerman-Traxler model.



④. What is stereoconvergent elim<sup>n</sup> rxn?  
Give example.

There are few examples when both diastereomers of a compound give same product and approximately at same rate. This is because of the formation of a common intermediate from both diastereomers at r/d step.

