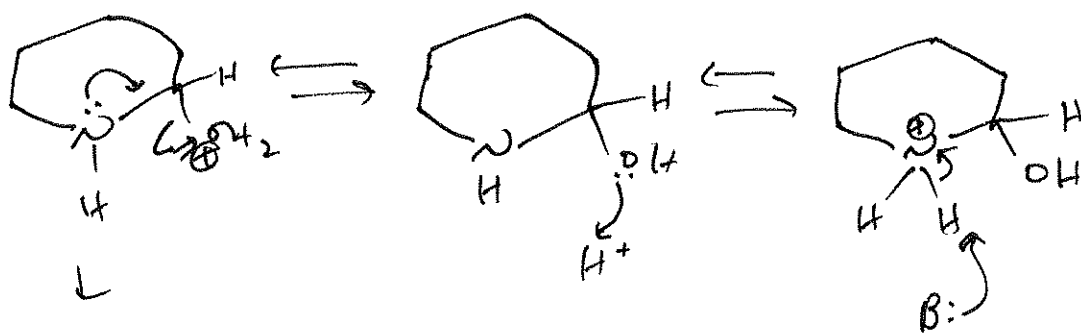
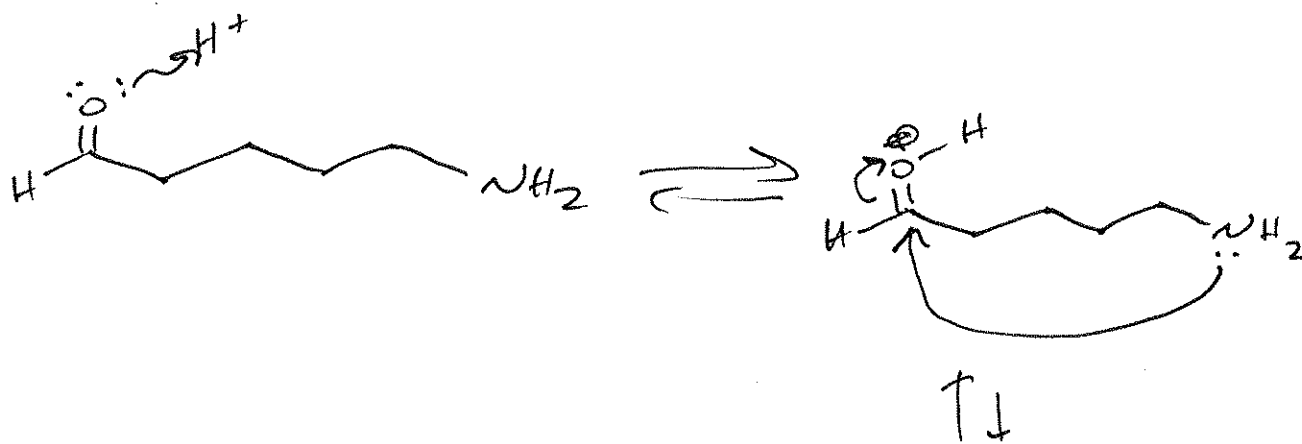
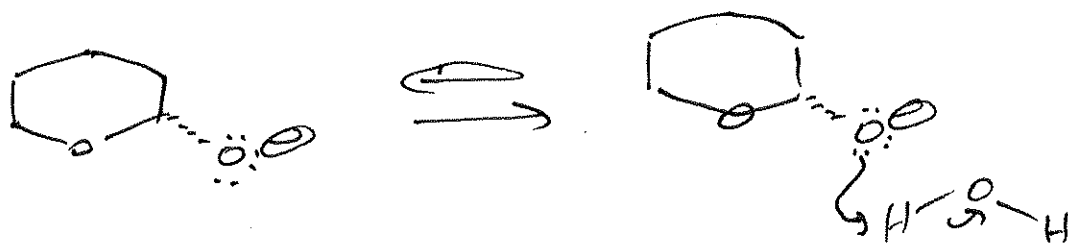
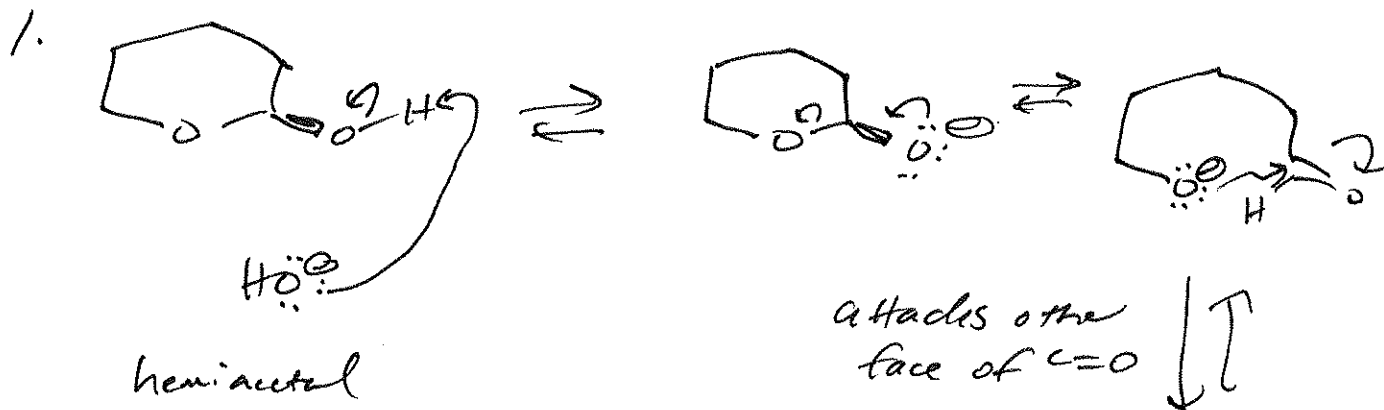
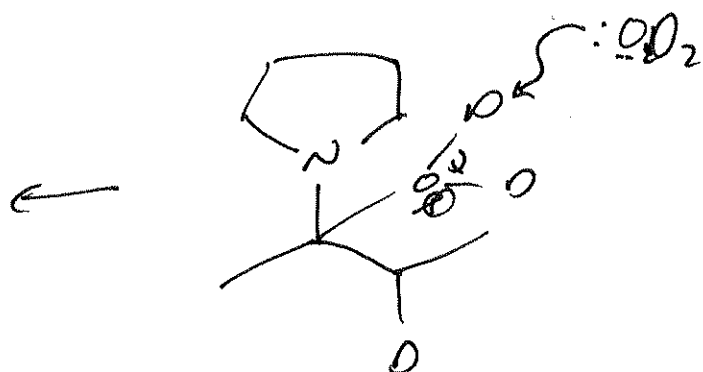
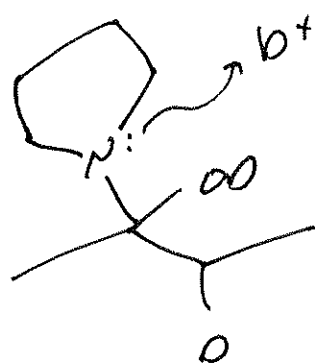
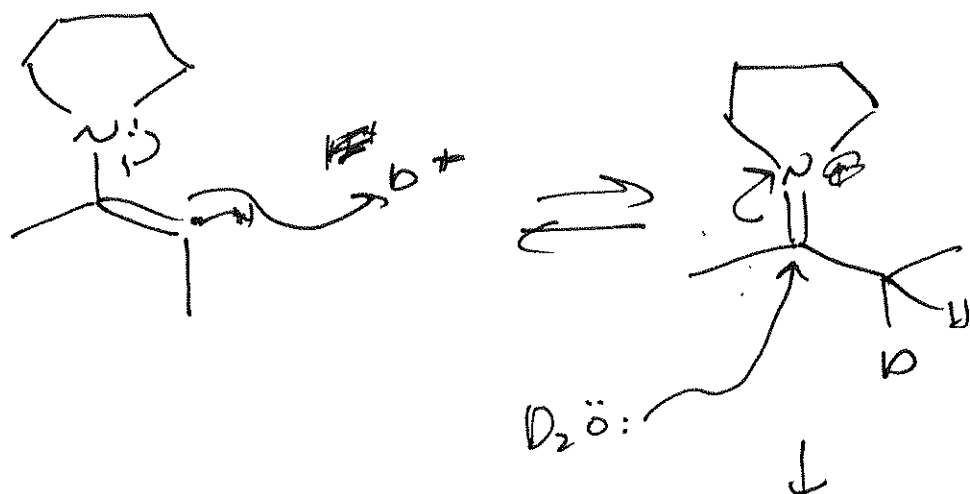


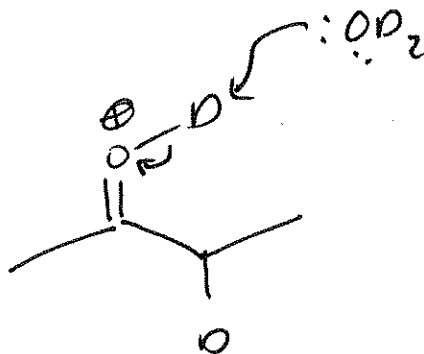
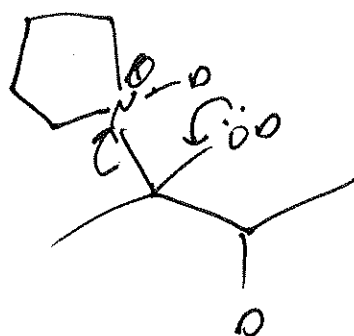
Problem set 6 - Answers



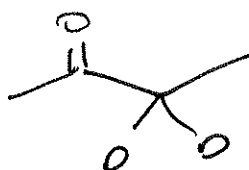
intramolecular
imine formation



generate good leaving group

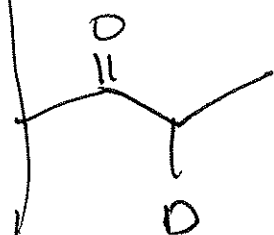


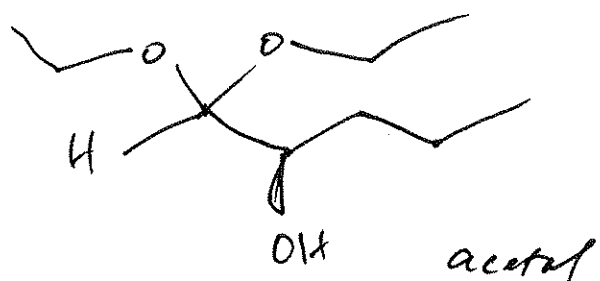
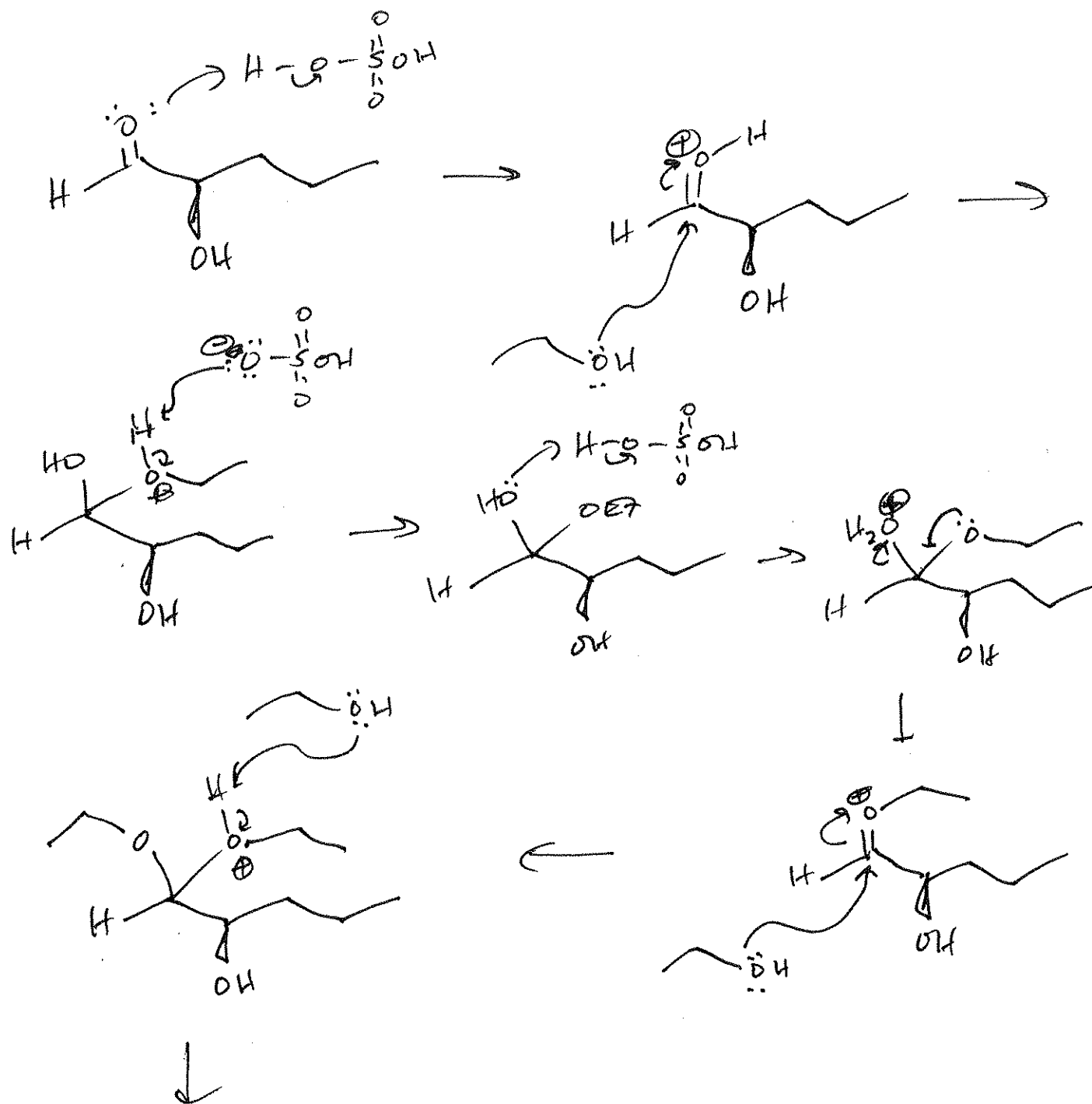
Can also get



Why?

(Hint: 1st step reversible)

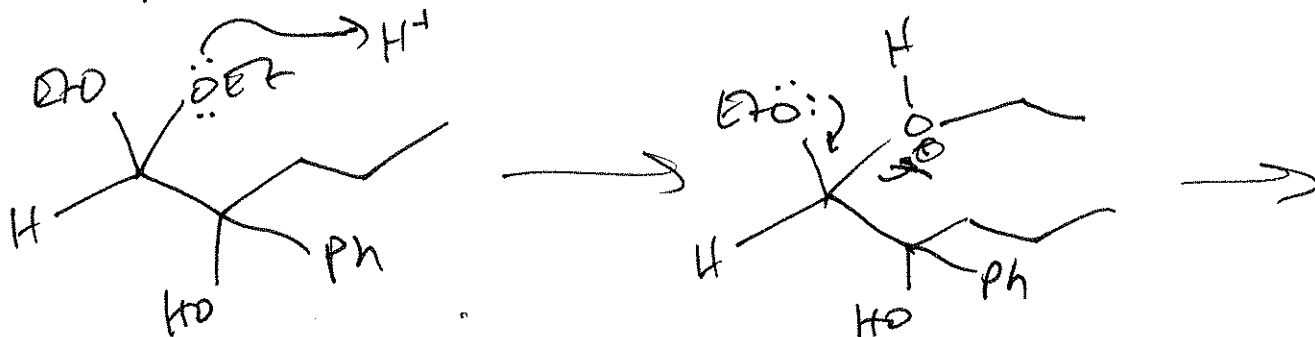
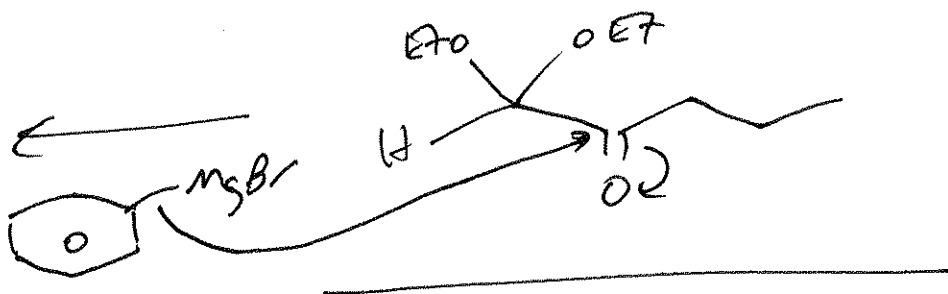
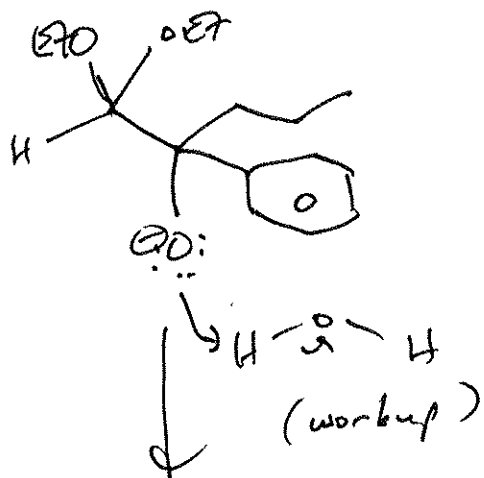
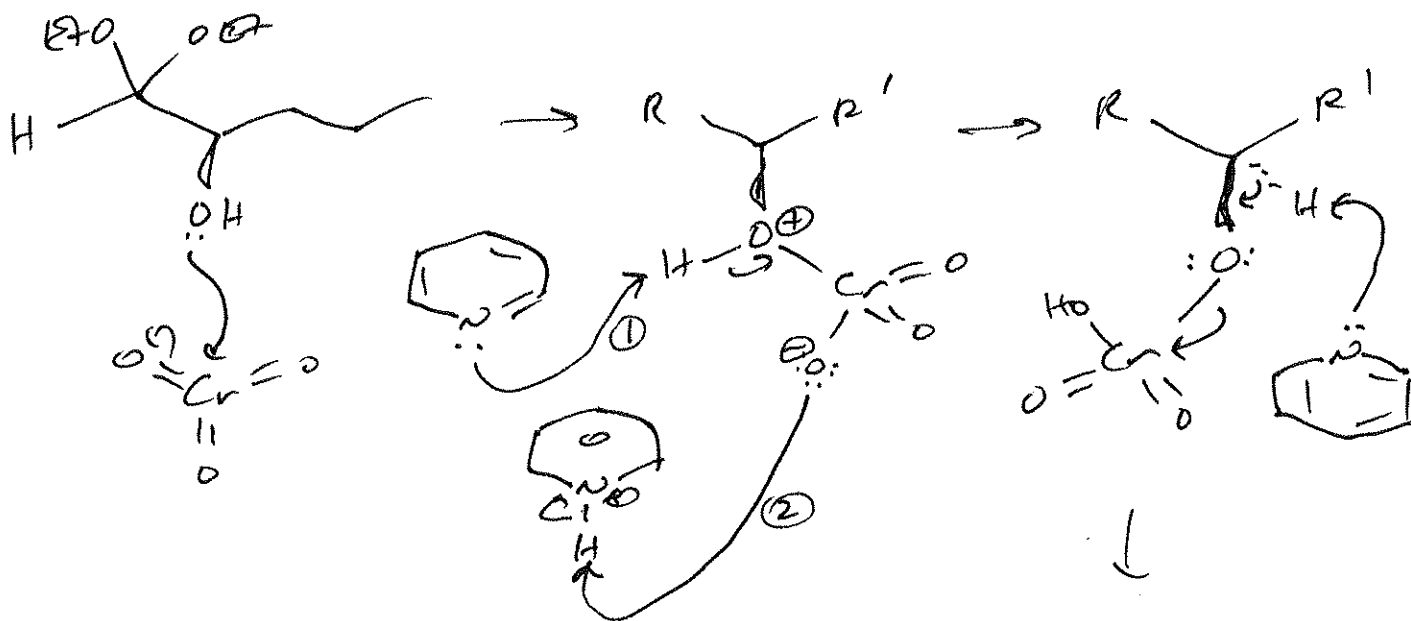


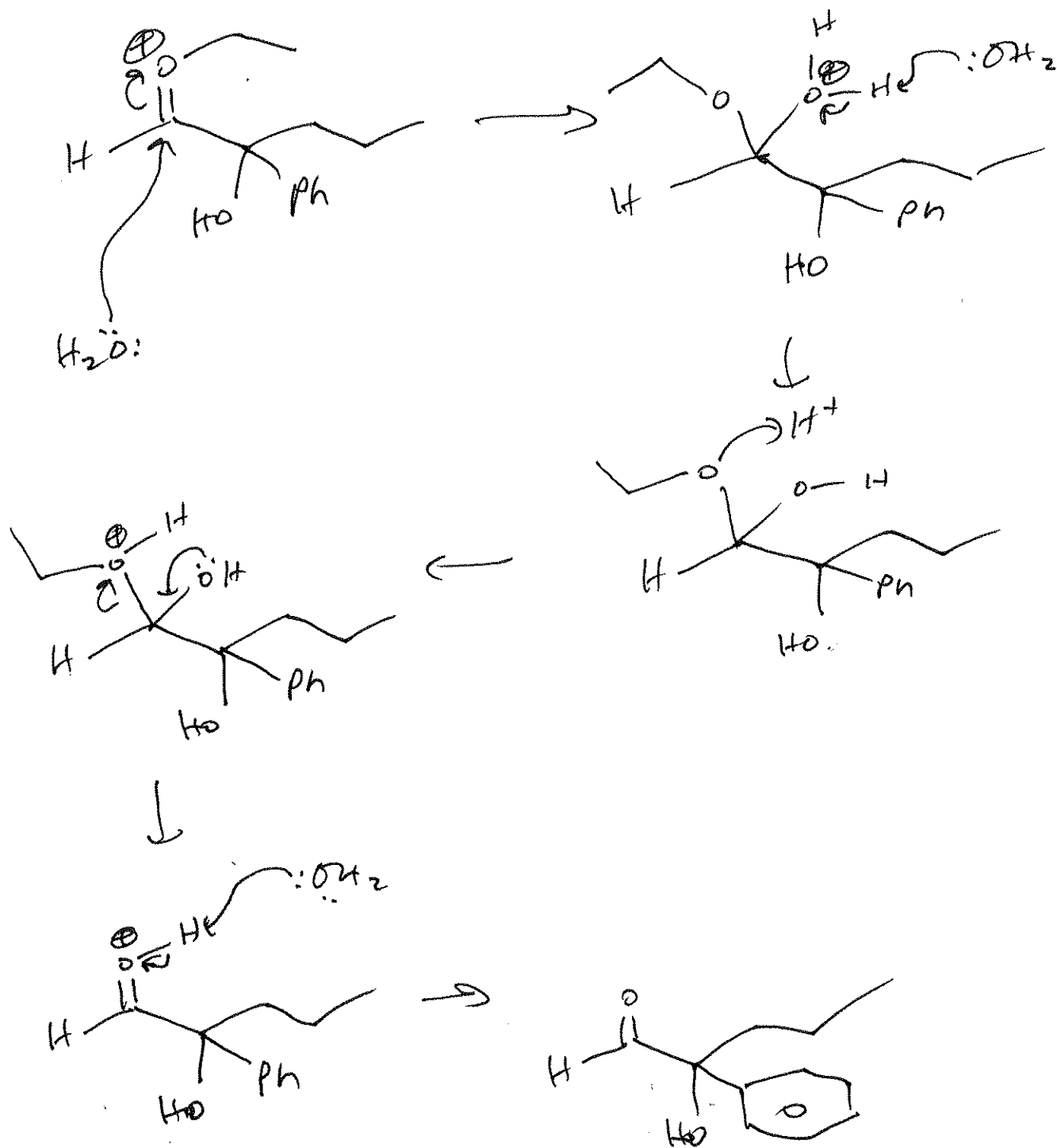


Note :

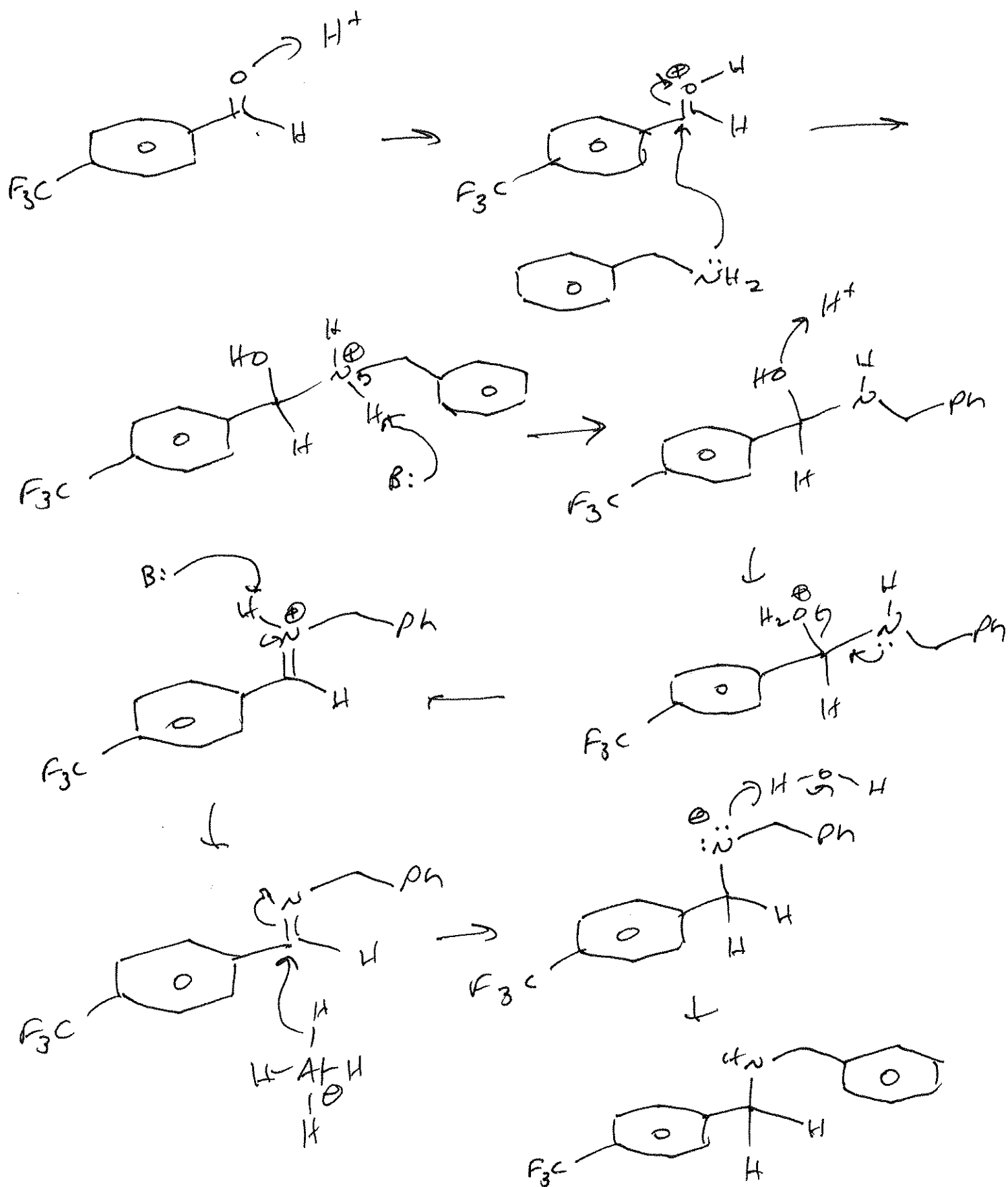
EtOH_2^+ and H_2SO_4 interchangeable
as acids

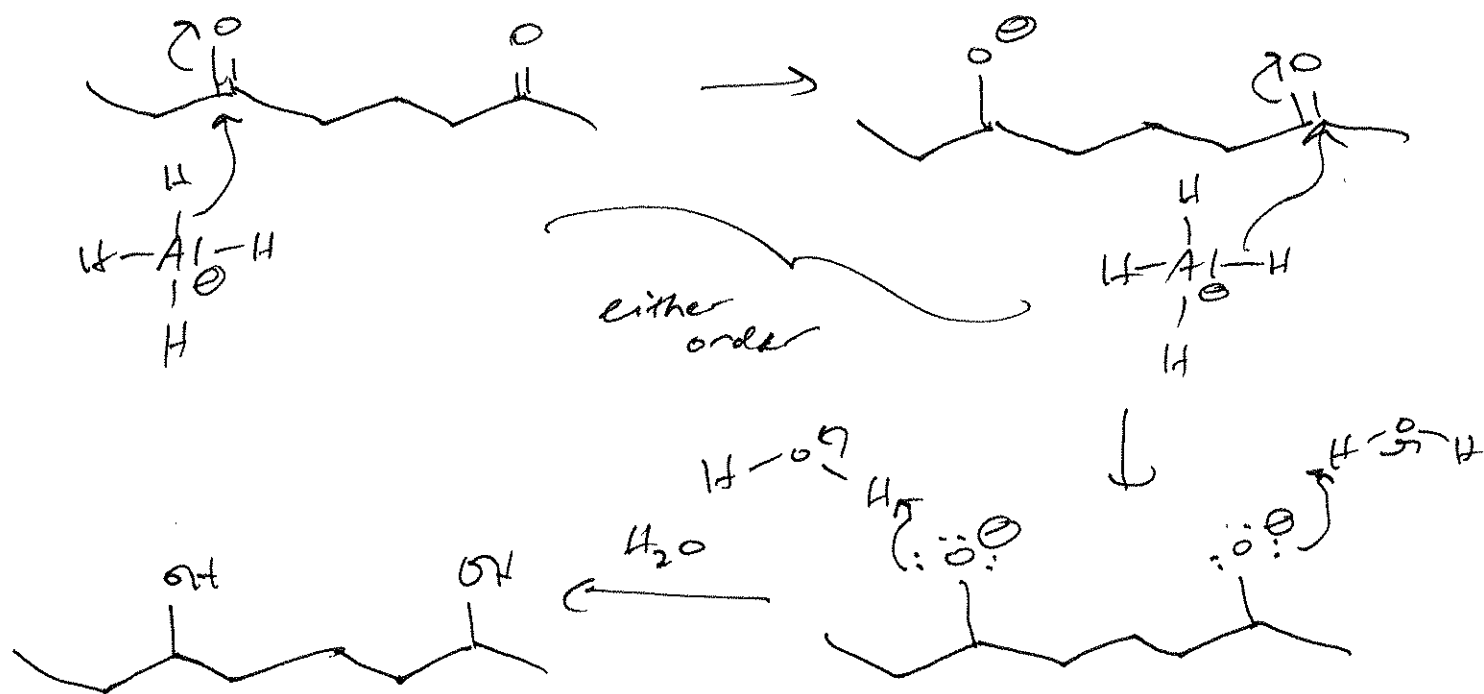
EtOH and HSO_4^- interchangeable
as bases





(example of acetal protecting group)





Stereochemistry : either stereoisomer could be generated at either carbon

$\therefore$ two pairs of racemic diastereomers

