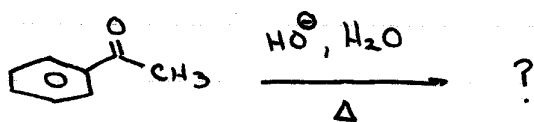
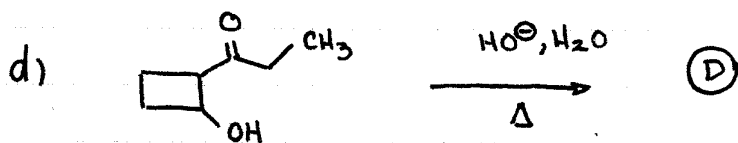
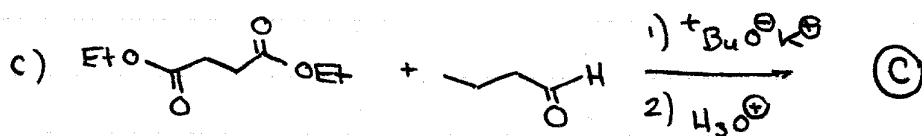
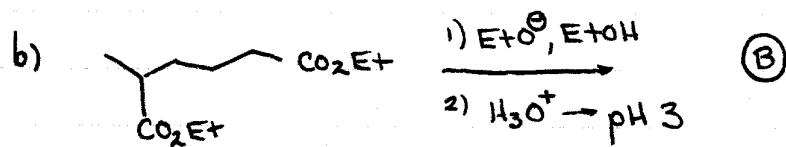
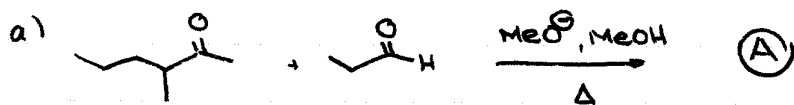


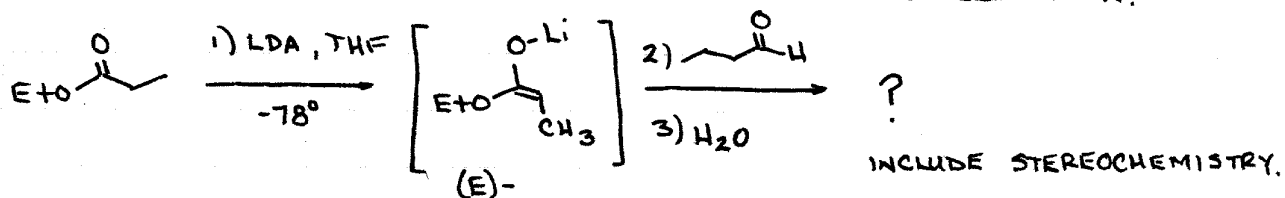
- 1) GIVE THE COMPLETE MECHANISM OF THE BASE CATALYZED ALDOL CONDENSATION BETWEEN TWO MOLECULES OF ACETOPHENONE. INDICATE WHICH STEPS ARE REVERSIBLE AND WHICH ARE IRREVERSIBLE, AND INCLUDE THE ELIMINATION PORTION OF THE REACTION. BE SURE TO SHOW ANY SMALL MOLECULES GIVEN OFF OR USED IN ANY STEP.



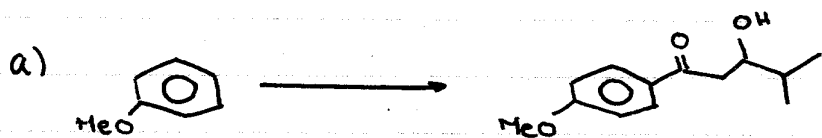
- 2) SHOW THE PREDOMINANT PRODUCT FOR THE FOLLOWING REACTIONS. IT IS NOT NECESSARY TO GIVE MECHANISMS, BUT DOING SO MAY BE A HELP. INCLUDE STEREOCHEMISTRY WHERE IT IS RELEVANT.



- 3) SHOW THE PRODUCT (AND NAME THE DIASTEREOMER) FOR THE FOLLOWING REACTION. DRAW THE TRANSITION STATE FOR THE CONDENSATION.



4) SHOW BY EQUATION(S) HOW YOU WOULD PREPARE THE FOLLOWING COMPOUND FROM THE INDICATED STARTING MATERIALS. YOU MAY EMPLOY ANY ADDITIONAL REAGENT(S) YOU DEEM FIT. SHOW ALL REAGENTS, CONDITIONS, AND INTERMEDIATES WHICH COULD BE ISOLATED.



USES SOME 235  
CHEMISTRY

