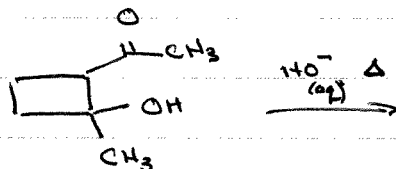


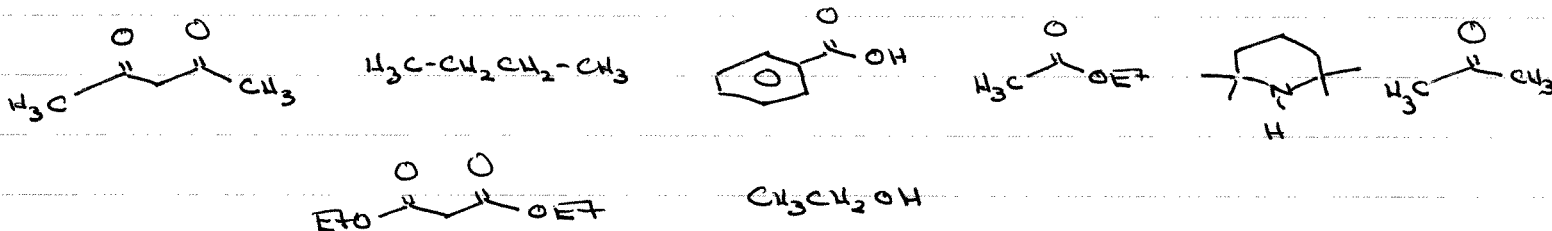
ASSIGNMENT #1

- 1) GIVE THE COMPLETE MECHANISM FOR THE FOLLOWING ALDOL CONDENSATION UNDER WEAK BASE CONDITIONS. INDICATE WHICH STEPS ARE REVERSIBLE AND WHICH ARE (PRACTICALLY SPEAKING) IRREVERSIBLE. SHOW ALL SMALL MOLECULES USED OR GIVEN OFF IN EACH STEP.

CAUTION: THE REALLY OBVIOUS TRANSFORMATION ~~ISN'T~~ ISN'T IT.



2. GIVE THE FOLLOWING COMPOUNDS, IN ORDER OF ACIDITY, FROM MOST TO LEAST. IN NON OBVIOUS SITUATIONS, SHOW THE ACIDIC SITE



3. GIVE THE MAJOR PRODUCT(S) OF THE FOLLOWING TRANSFORMATIONS. INCLUDE STEREOCHEMISTRY WHERE IT IS RELEVANT.

