

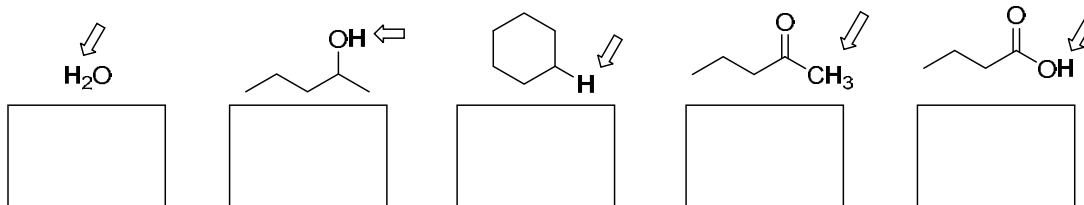
**CEM 352 QUIZ 1: DUE Friday March 20<sup>th</sup> before 5:00 PM EST by EMAIL to your TA**

NAME: \_\_\_\_\_ ID \_\_\_\_\_ TA \_\_\_\_\_

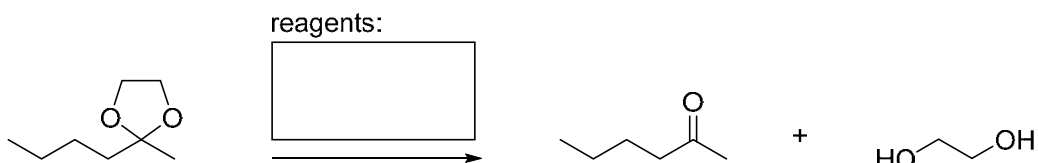
The following quiz is worth 15 points (5 points per question). You may use your book, lecture notes and internet (but remember – not everything on the internet is true) to find the answers to the questions.

You may NOT consult other people.

1. Provide the pKa's of the most acidic protons of the following molecules. Write a single number – not a range.



2. Consider the reaction below. What reagents are needed to successfully complete the following reaction?



3. Using the reagents you listed in question 2, draw a detailed reaction mechanism of this reaction. For full credit make sure you use arrows (from nucleophilic site to electrophilic site, charges, equilibrium arrows and resonance arrows where they are required. (example Chap.17, p756).

