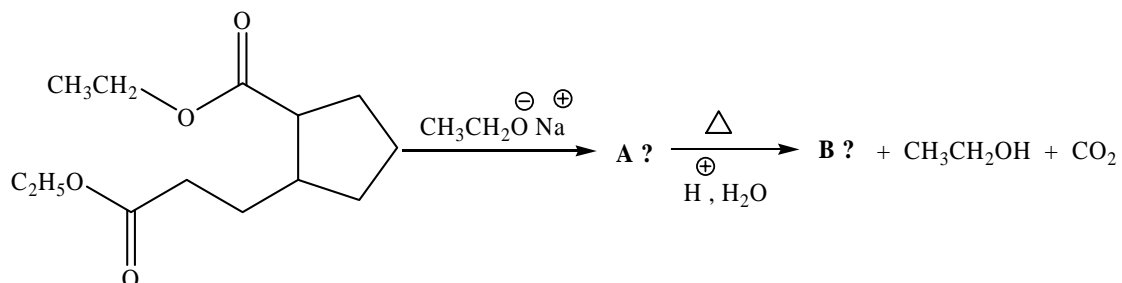
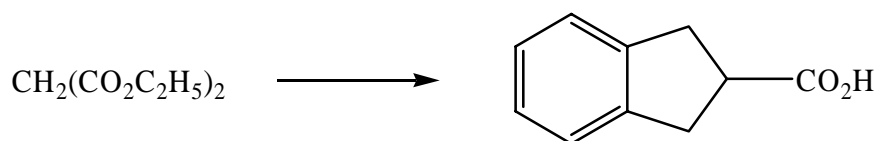


**CHEM-202**  
**Quiz # 8 Chapter 17: Enolates and Carbanions**

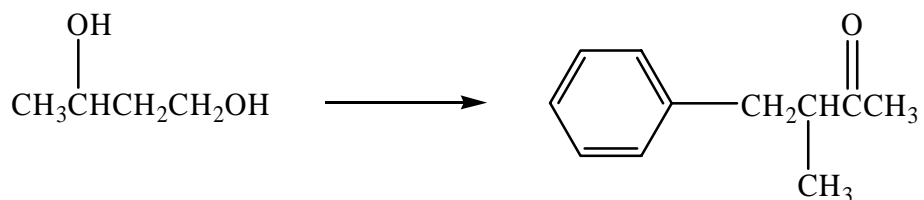
**Q1.** Identify the missing products in the following reaction scheme:



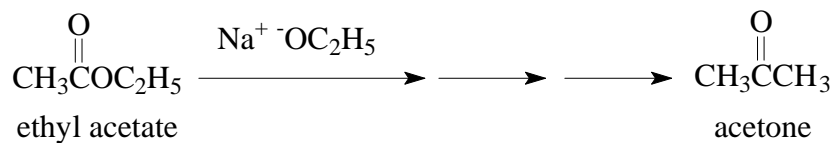
**Q2.** Suggest a synthesis procedure for the following conversion:



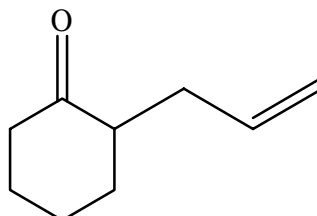
**Q3.** How would you carry out the following conversion?



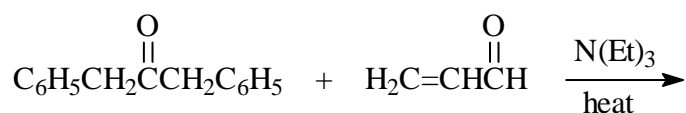
- Q4.** The “self” Claisen condensation of ethyl acetate can lead, through several steps, to the formation of acetone. Depict the reaction sequence for this conversion:



- Q5.** Show **all steps** encountered in preparing the following compound through an enamine reaction approach:



- Q6.** Heating a mixture of 1,3-diphenylacetone and propenal (acrolein) in triethylamine gives a product,  $\text{C}_{18}\text{H}_{16}\text{O}$ , in 53% yield. The mechanism for product formation is believed to be a Michael addition followed by an intramolecular aldol condensation. What is the product of this reaction?



- Q7.** What is the product of the following intramolecular aldol condensation reaction?

