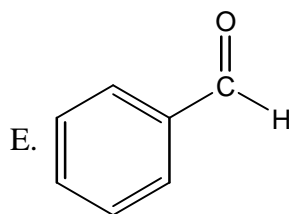
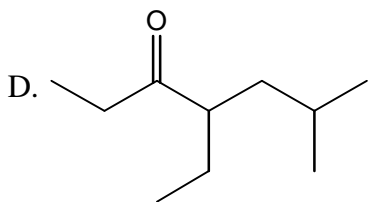
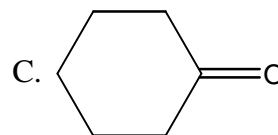


Chem 231: Problem Set #9 (on Chapter 9)

1. Name or draw structural or line formula for the following compounds.

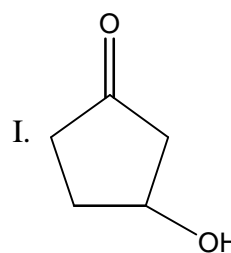
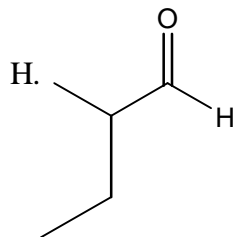
A. acetone

B. formaldehyde



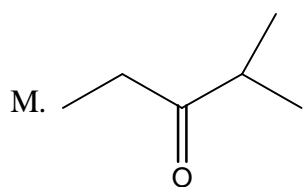
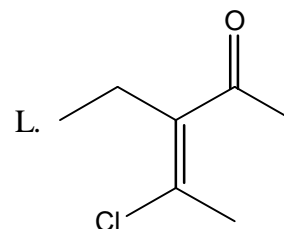
F. 3-ethylpentanal

G. acetaldehyde

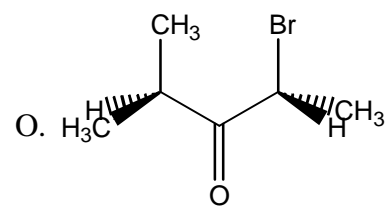


J. 5-methyl-3-hexanone

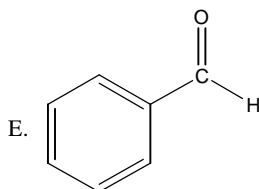
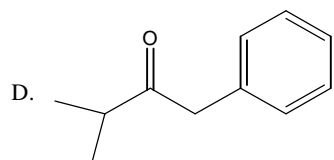
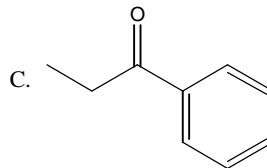
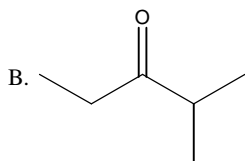
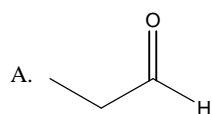
K. sec-butyl methyl ketone



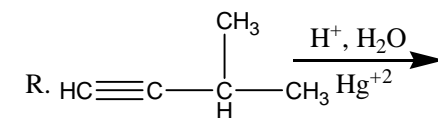
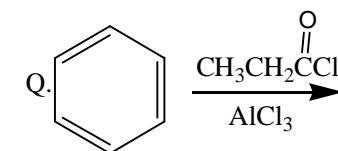
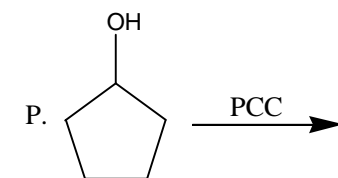
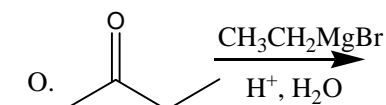
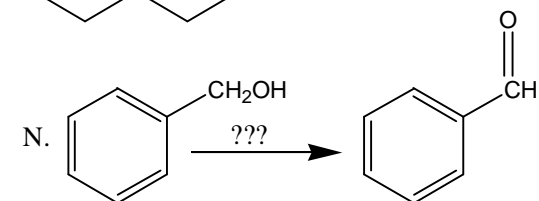
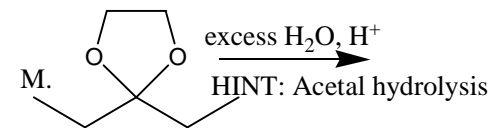
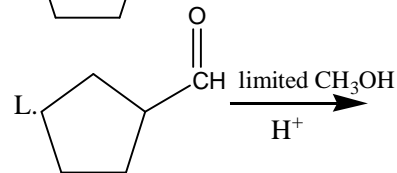
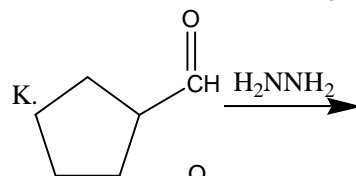
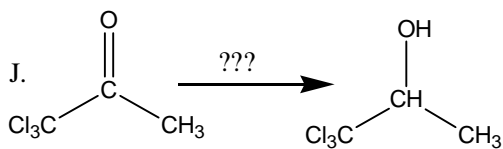
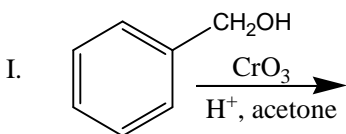
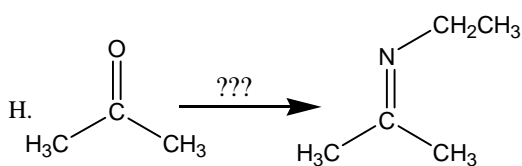
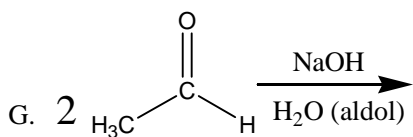
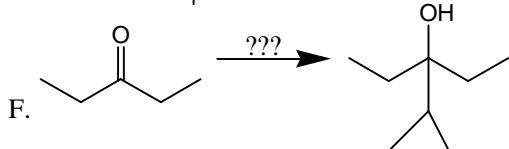
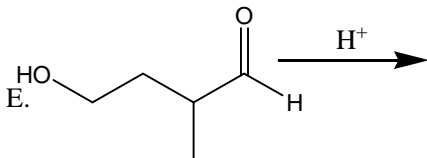
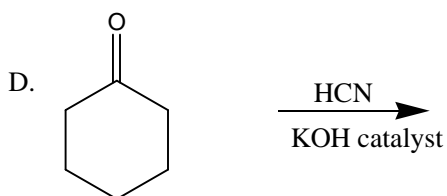
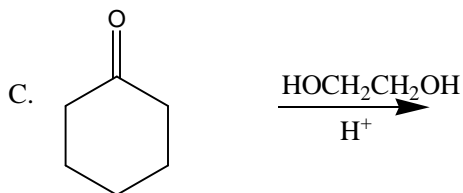
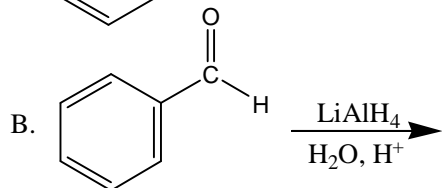
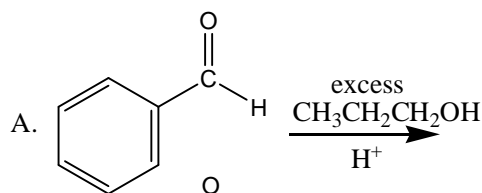
N. (Z)-3-methyl-4-heptenal

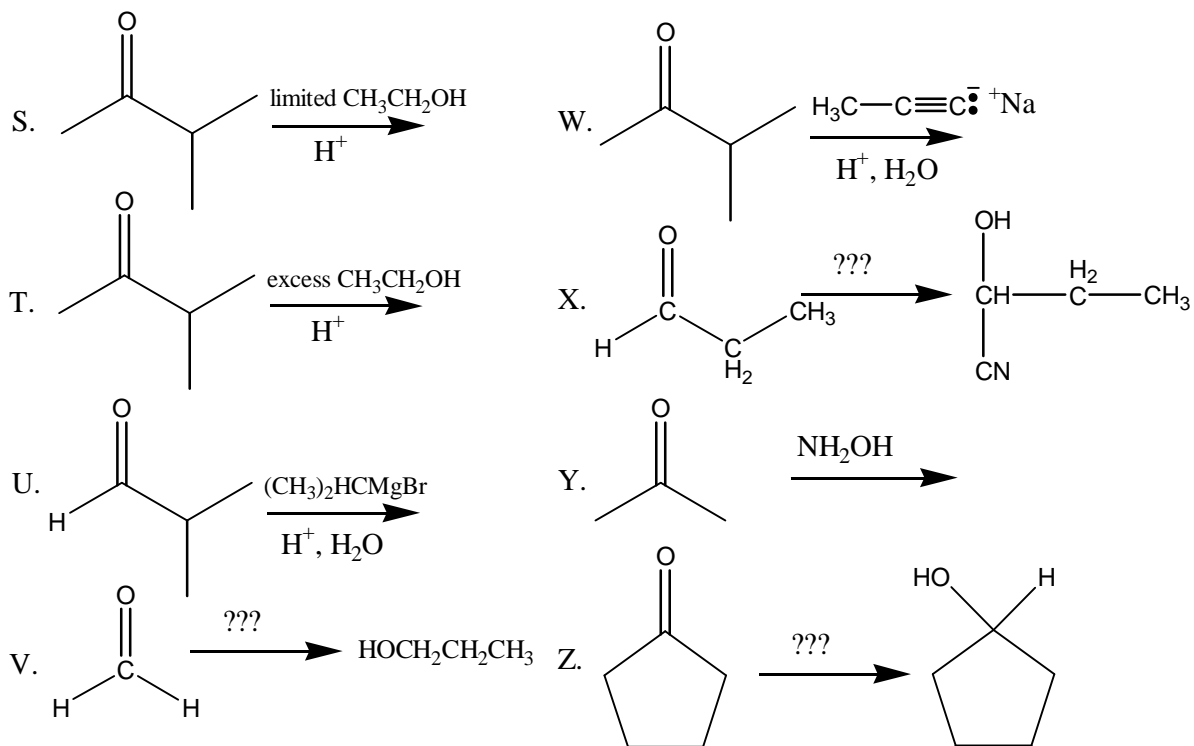


2. Draw the enol form of the following ketones and aldehydes. In cases where more than one enol is possible, label the most stable one.



3. Give the major organic product(s) or reagent(s) for the following reactions.





- Write mechanisms for the reactions given in question 3G and 3T.
- Give the product for the aldol condensation reactions shown below.

