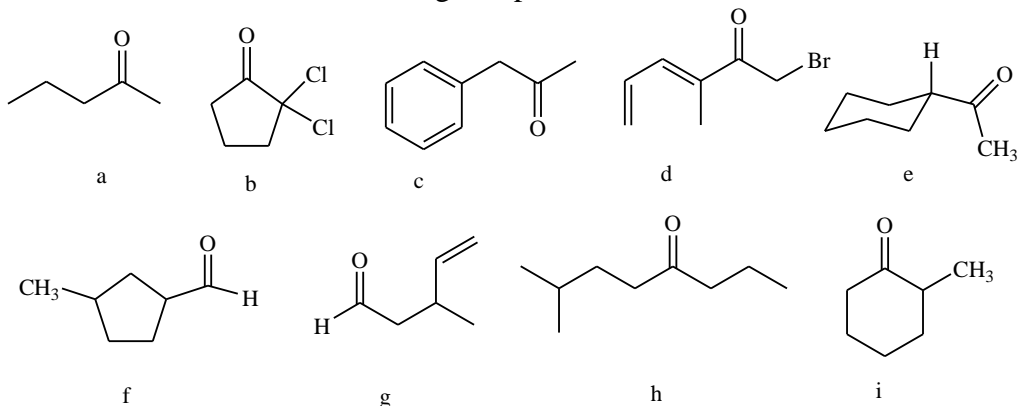
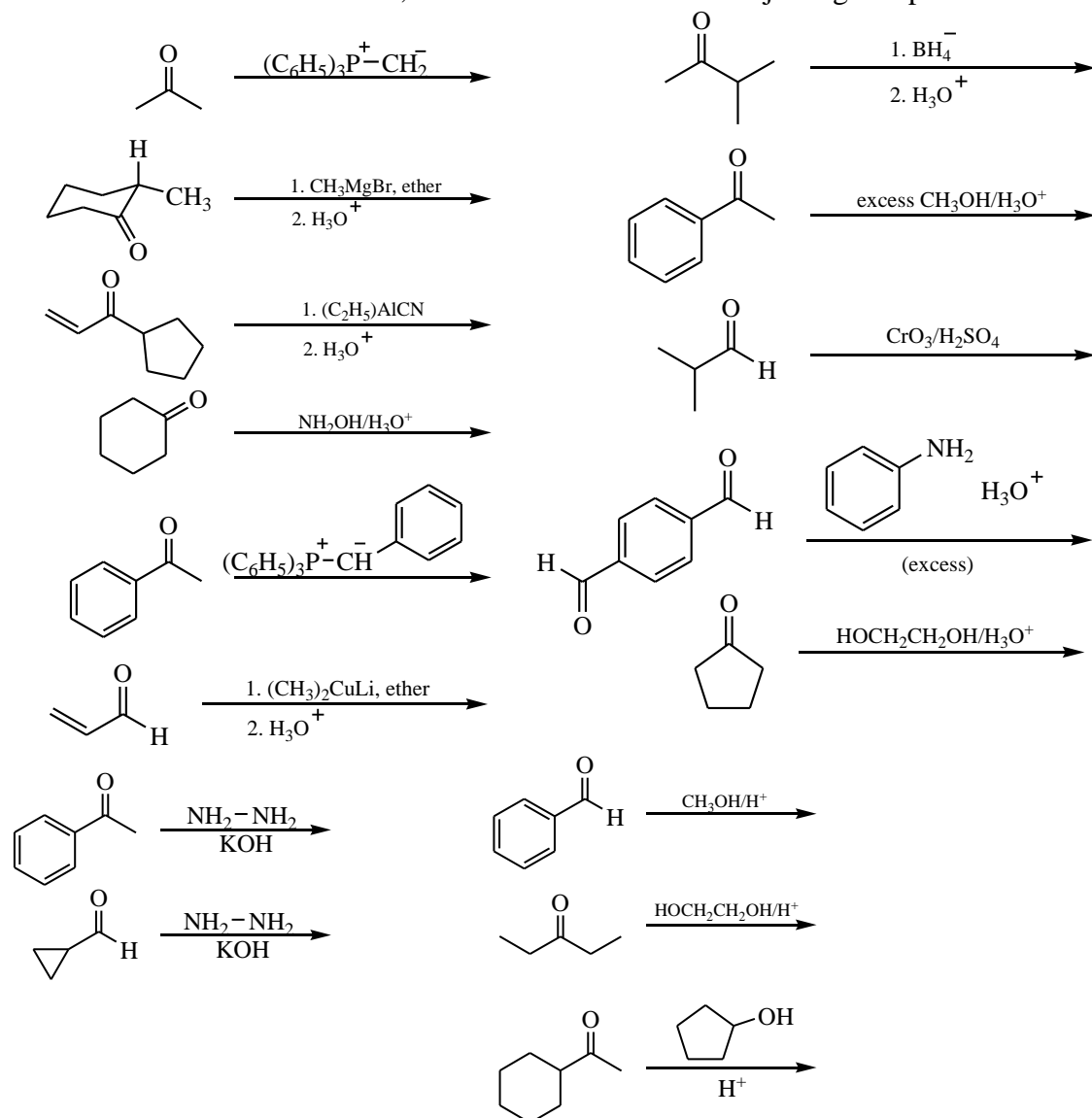


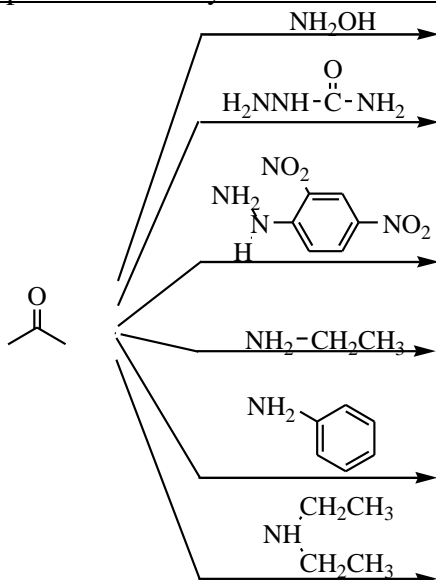
**1. Aldehydes and Ketones-Nomenclature**

Give the proper IUPAC name for each of the following compounds:

**2. Aldehydes and Ketones-Selected Reactions**

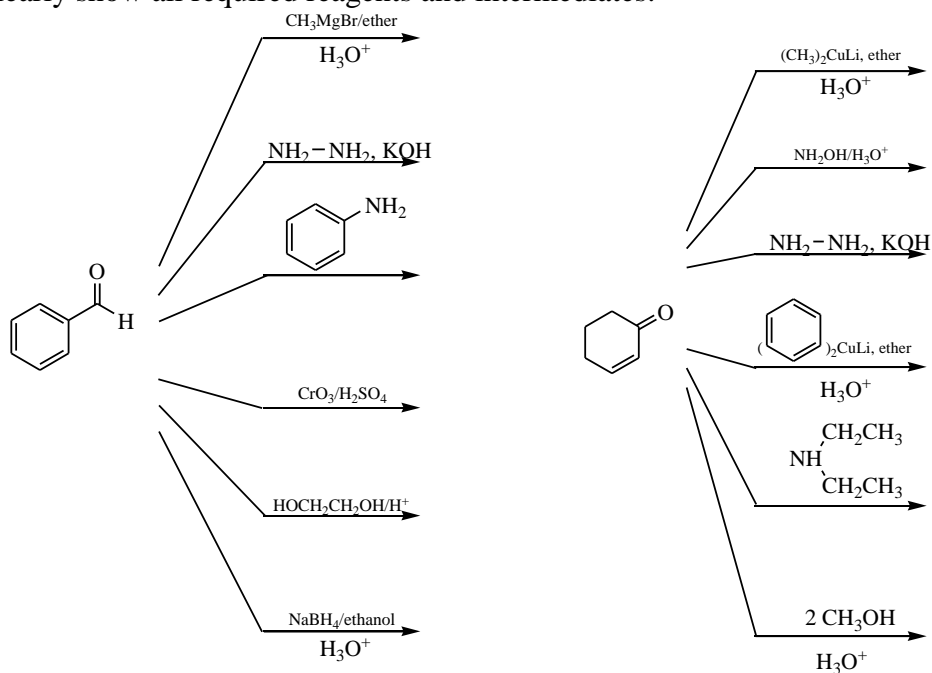
For each of the reactions below, draw the structure of the major organic product.





### 3. Aldehydes and Ketones-Synthesis

- a. Suggest a synthesis for each of the compounds shown below, beginning with the compound shown on the left. Clearly show all required reagents and intermediates.



- b. Suggest a synthesis for each of the compounds shown below, beginning with the starting material shown on the left. Clearly show all intermediates and reaction conditions. Multiple steps are likely to be required.

