Chem 332 Spring 2012 Exam #2 March 23, 2012

Name\_\_\_Key\_\_\_\_

This is an open-book, open notes exam. No electronic devices are allowed.

1. (5 points each) These reactions would not proceed as indicated. Please draw the correct product of each reaction.



2. (20 points) Circle the correct product, and explain why.



3. (20 points) Outline a synthetic route to **A**. You may use any starting materials that contribute three or fewer carbons to the final product



4. (20 points) Deduce the structure of C, and outline an arrow-pushing mechanism for its formation. For the mechanism, assume that the active reagent is I<sup>+</sup>.



5. (20 points) Draw an arrow-pushing mechanism for the conversion of D to E. Correct labelling is worth three points, and correct bb/bf an additional three points.

