Chem 332 Exam 1 March 5, 2007 Prof. Fox 50 minutes 100 points

Show your work in detail

WRITE YOUR NAME ON EVERY PAGE

1. Provide reagents for the following transformations (5 pts each)

2a Circle the product below that is the stronger amine base. Provide a detailed but brief explanation to support your answer. Use chemical structures to support your answer. (15 points)

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3 Provide a detailed arrow pushing mechanism. Show the mechanism of all steps.

4 Provide a synthesis of **B** using A and any other materials that contain **3 carbons or less.**Reagents that do not become incorporated into the product (e.g. nBuLi, PPh3) may be employed