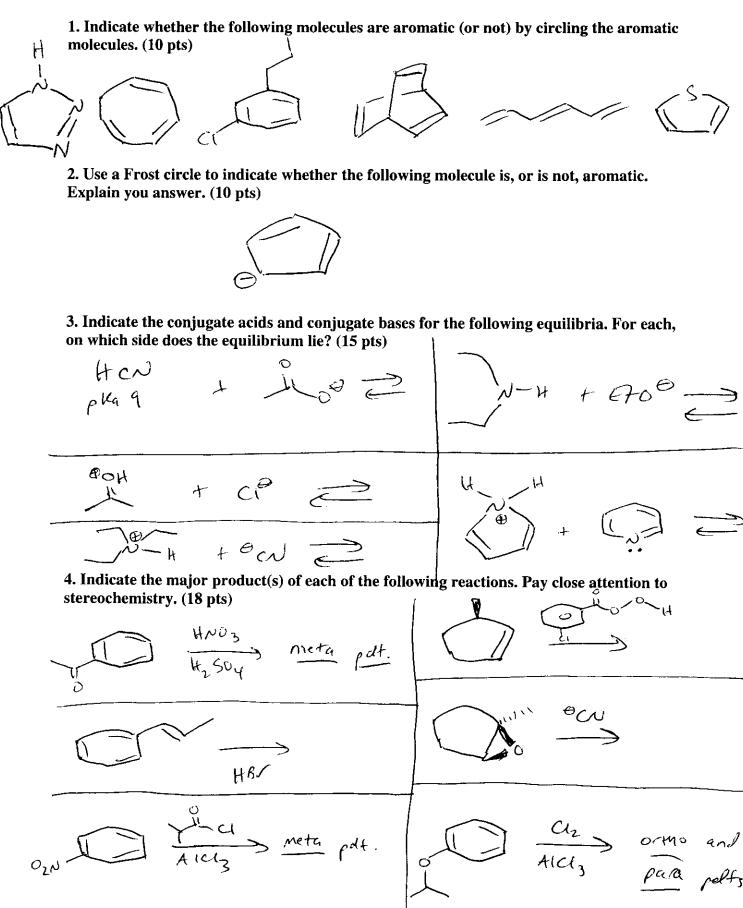
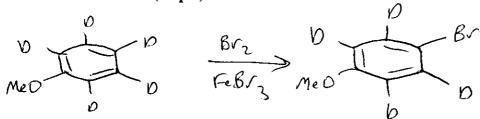
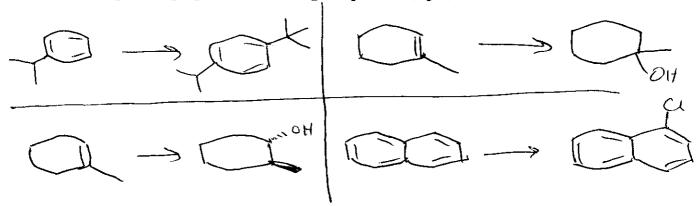
## Practice Exam 1 - CHEM 322 - Spring 2005 - Dr. Neal Zondlo



5. Provide a mechanism for the following reaction. For the key intermediate, draw all good resonance structures. (12 pts)



6. Provide reagents to prepare the following compounds. (8 pts)



7. Provide a mechanism for the following reaction. (12 pts)



8. Propose a synthesis for each of the following molecules using benzene, anisole (PhOMe), or an unfunctionalized alkene as the starting material. If you don't know how to complete the synthesis, you are encouraged to submit a partial synthetic scheme for partial credit. (15 pts)