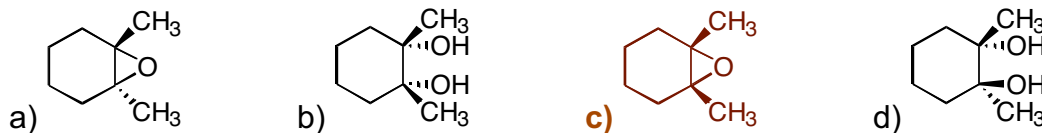
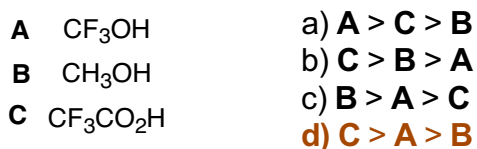


21 points (3 points each) Mark your answers on the scantron sheet. You may keep this copy.

1. What is the major product of the reaction of 1,2-dimethylcyclohexene with MCPBA?



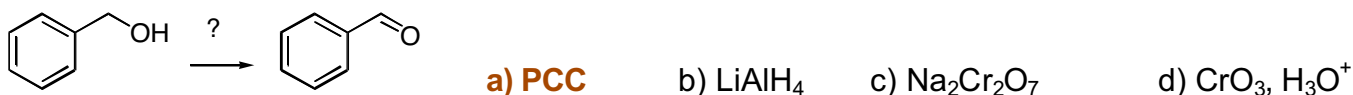
2. Rank the following molecules in order of decreasing acidity



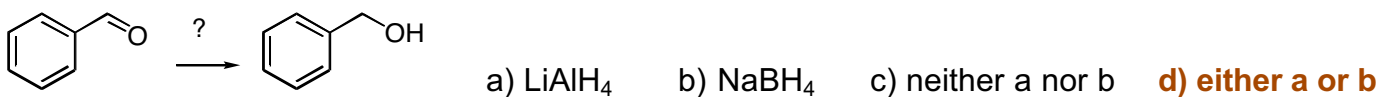
3. Which of the following alcohols can be fully deprotonated with NaOH?



4. Which oxidizing reagents would convert benzyl alcohol to benzaldehyde?



5. Which reducing agent would convert benzaldehyde into benzyl alcohol?



6. Which alcohol and alkyl halide would you use for the Williamson Ether Synthesis of ethyl *tert*-butyl ether?



7. What is the product of the reaction of the 1-methylcyclopentene oxide shown below with HBr?

