

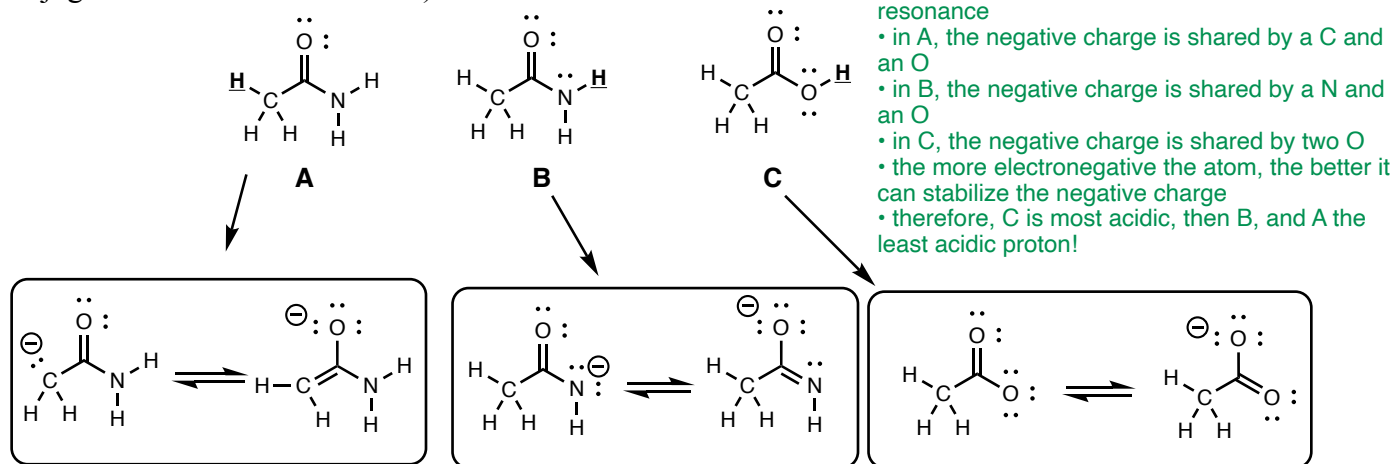
Problem Set Chapter 3

Organic Chemistry for
Life Sciences: CHM 223
Section A

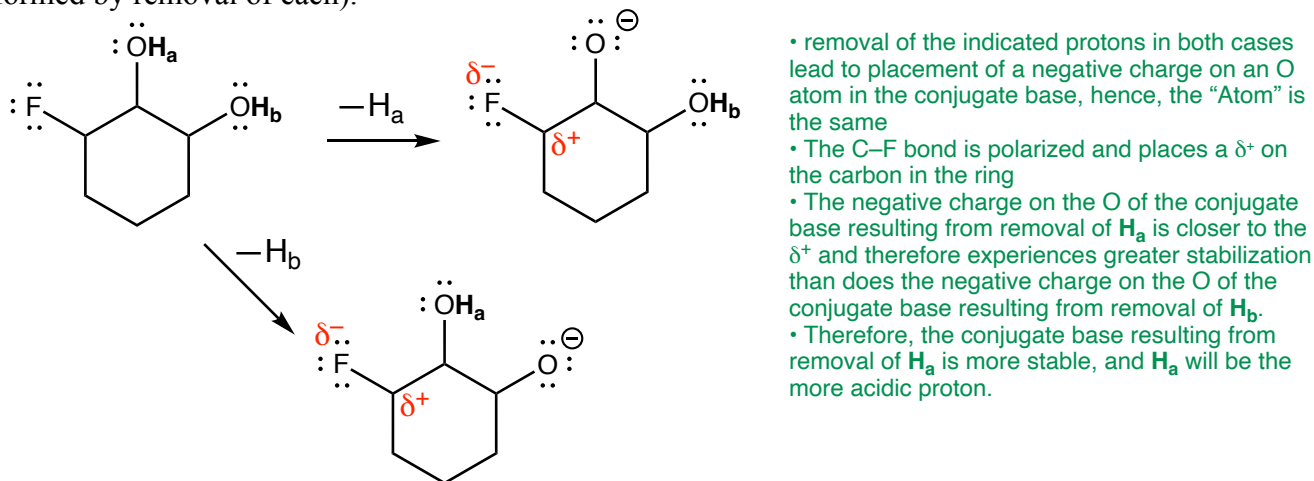
Name _____

DUE: Monday October 4

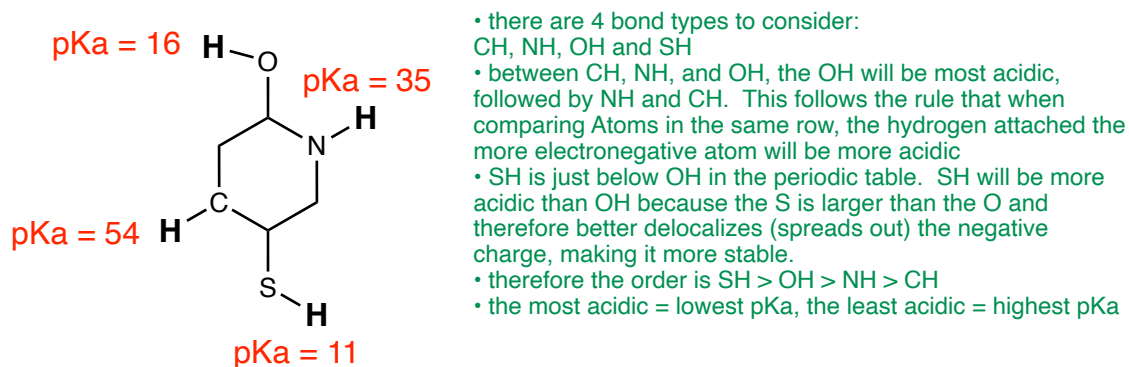
1. Rank the bold hydrogen atoms according to their acidity (most acidic >> least): (HINT: draw the conjugate base formed from each)



2. Which of the two protons is expected to be most acidic, H_a or H_b ? Explain (HINT: draw the conjugate bases formed by removal of each).



3. pKa's for each of the bold hydrogen atoms below are provided. Assign them to the proper hydrogen atom in the molecule.



pKa values = 35, 16, 54, 11

