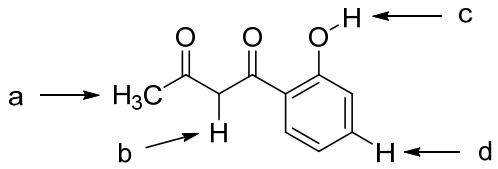
Chem 220 Quiz 4 Green

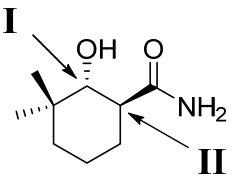
Name:_____

1. Circle the letter corresponding to the **LEAST ACIDIC** proton? (1 point)

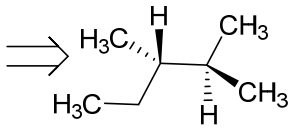


2. Identify the absolute configuration (R or S) for each stereocenter. (1 point)

   a. **I** = S and **II** = S
   b. **I** = R and **II** = R
   c. **I** = S and **II** = R
   d. **I** = R and **II** = S



3. a. Draw a Newman projection looking down the indicated bond.
   b. Draw the remaining **staggered** conformations.
   c. Identify the **lowest energy** conformer and briefly explain your choice. (4 points)



4. a. Draw both chair conformations for the following molecule.
   b. Label the lower energy conformation and briefly explain your choice. (4 points)