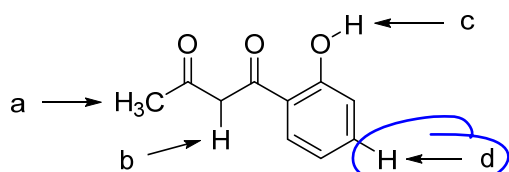
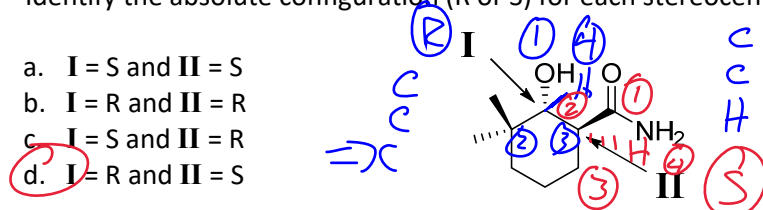


Name: _____

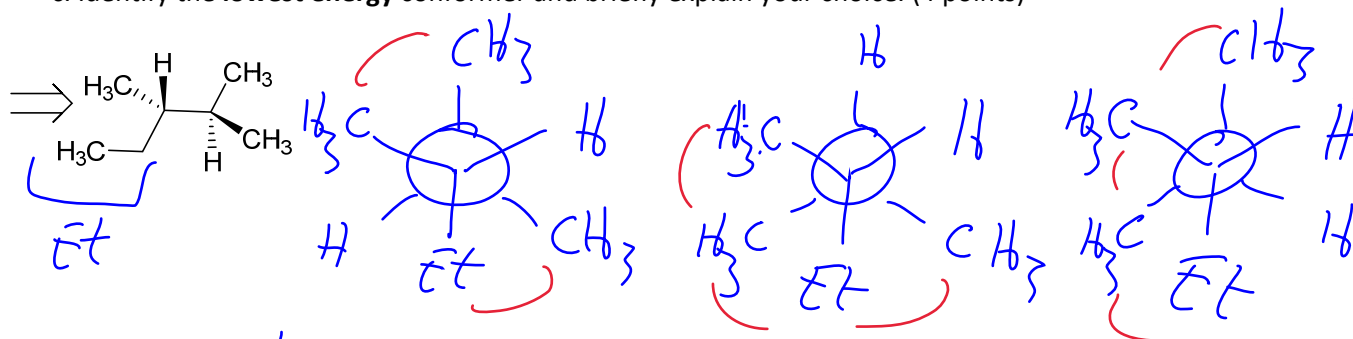
1. Circle the letter corresponding to the **LEAST ACIDIC** proton? (1 point)



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

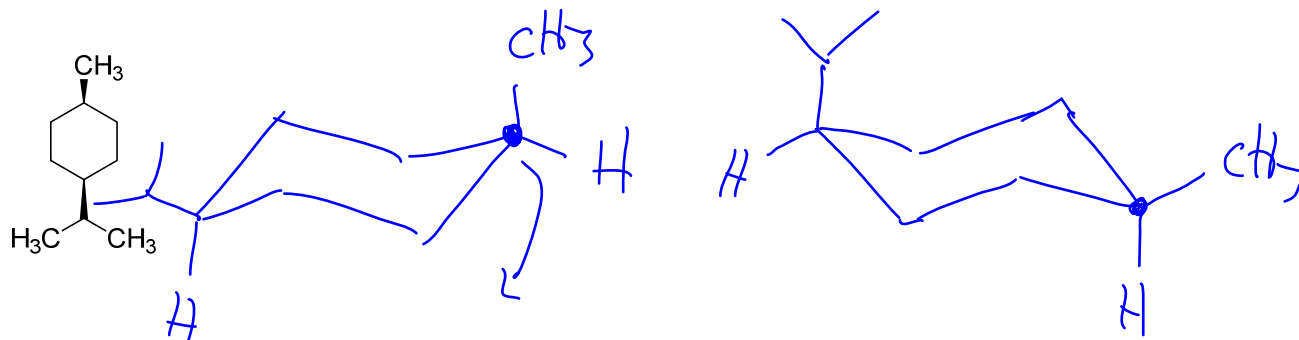


3. a. Draw a Newman projection looking down the indicated bond.
 b. Draw the remaining **staggered** conformations.
 c. Identify the **lowest energy** conformer and briefly explain your choice. (4 points)



lowest energy
 fewest gauche interactions

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



lower energy
 iPr larger & equatorial => minimized 1,3-diaxial interactions