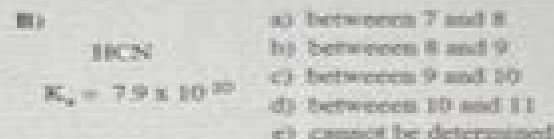


Supplemental Problems (Acids and Bases)

CHEM 265

1. Use the K_a value provided for each compound to select the correct choice with regard to the pK_a . Circle the correct choice for each substance.



2. Determine the K_a values for the following compounds, from the pK_a values provided.



3. The indicated hydrogen atoms in 1,3-cyclopentadiene are more acidic than the indicated hydrogens in cyclopentane. Explain why.



4. Use the information in the equation for this acid-base reaction to answer the following multiple choice question.



Based on this information, we can infer that:

- a) Ammonium ion is a stronger acid than thiophenol.
 b) Ammonium ion is a weaker acid than thiophenol.
 c) The pK_a of thiophenol is larger than 9.4
 d) The above reaction is not an acid/base equilibrium process.

5. A hydrocarbon with a π -bond is shown reacting with two different acids. Draw curved arrows to show the movement of electrons (*i.e.*, the reaction mechanism), and draw the product of each of these acid/base reactions.



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