# AP Chemistry: Acid-Base Worksheet

AP Chemistry Acid-Base WS 0809.doc

Name: \_\_\_\_\_\_ Date: \_\_\_\_\_\_ Per: \_\_\_\_\_

 In the following equations, label each species as an acid or a base. Show the conjugate acid-base pairs.

a.  $HCO_3^-(sq) + HF_{(sq)} \leftrightarrow H_2CO_{3(sq)} + F_{(sq)}$ b.  $HCO_3^-(sq) + OH^-(sq) \leftrightarrow CO_3^{-2}^-(sq) + H_2O_{(3)}$ 

2. In the following reactions, identify the Lewis acid and the Lewis base.

a.  $Ag^* + 2NH_2 \leftrightarrow Ag(NH_3)_2$ 

b. B(OH)<sub>3</sub> + H<sub>2</sub>O ↔ B(OH)<sub>4</sub> + H\*

For the following reaction, decide which species (reactants or products) are favored at the completion of the reaction.

SO<sub>1</sub>2 (aq) + HCN(aq) ↔ HSO<sub>1</sub> (aq) + CN (aq)

4. Which member of each of the following pairs is the stronger acid?

a. NH<sub>a</sub>, PH<sub>a</sub>

e. HSO, , HSeO,

b. HI, H.Te

c. HSO<sub>3</sub> , H<sub>3</sub>SO<sub>3</sub>

d. H<sub>3</sub>AsO<sub>6</sub>, H<sub>3</sub>AsO<sub>5</sub>

5. Calculate the concentrations of hydronium ion and hydroxide ion at 25°C in

a. 0.15M HNO<sub>3</sub>

b. 0.010M Ca(OH),

- 6. A sample of orange juice has a hydronium-ion concentration of 2.9x10<sup>-1</sup>M. What is the pH? Is the solution acidic?
- 7. The pH of human arterial blood is 7.40. What is the hydronium ion concentration?

# **Ap Worksheet 06d Acids And Bases Answer**

Richard H. Langley, John Moore

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