#### CHEM 102 - Recitation Week 7 - Answer Key

Ch. 16, 33. In each reaction, identify the Brønsted-Lowry acid, the Brønsted-Lowry base, the conjugate acid, and the conjugate base. Use symbols A, B, CA, and CB, respectively.

a) 
$$H_2CO_3(aq) + H_2O(l) \rightleftharpoons H_3O^*(aq) + HCO_3(aq)$$

b) 
$$NH_3(aq) + H_2O(l) \Rightarrow NH_4^*(aq) + OH^*(aq)$$

e) 
$$HNO_3(aq) + H_2O(l) \rightleftharpoons H_3O^*(aq) + NO_3^*(aq)$$

d) 
$$C_5H_5N(aq) + H_2O(l) \rightleftharpoons C_5H_5NH^+(aq) + OH^-(aq)$$

#### Concepts needed:

Brønsted-Lowry definition of acids and bases:

definition of conjugate acid-base pairs: their chemical formulas must differ by one proton, H\*.

<u>Note</u>: proton = an atom of hydrogen that lost its electron, hence the H<sup>\*</sup> symbol. chemical equations

Answer:

a. 
$$H_2CO_3(aq) + H_2O(l) \Rightarrow H_3O^*(aq) + HCO_3(aq)$$
  
A B CA CB

Note: Brønsted-Lowry bases must have a lone pair of electrons available to bind the incoming proton by a covalent bond in which both shared electrons come from the base.

Recall from CHEM 101 how to determine the number of lone pairs in atoms of non-metals! Such lone pairs are usually not shown in chemical formulas.

c. 
$$HNO_3(aq) + H_2O(l) \Rightarrow H_3O^+(aq) + NO_3(aq)$$
  
A B CA CB

d. 
$$C_5H_6N(aq) + H_6O(l) \Rightarrow C_6H_6NH^*(aq) + OH^*(aq)$$
  
B A CA CB

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