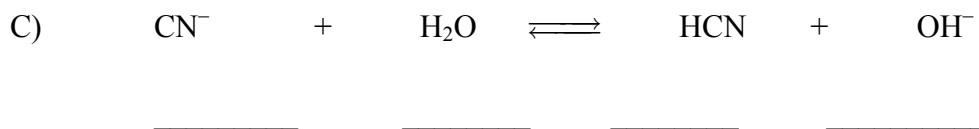
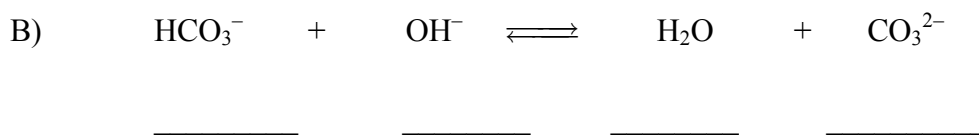
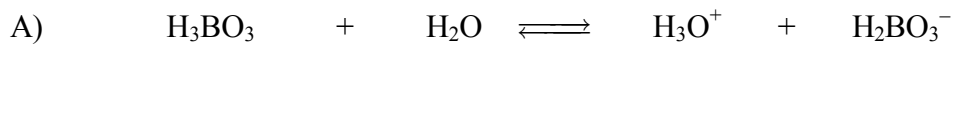


REVIEW QUESTIONS

## Chapter 10

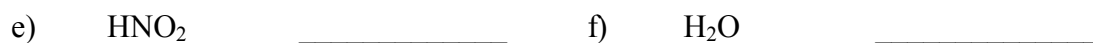
1. For each reaction shown below, determine the Brønsted-Lowry acid and base and their conjugates:



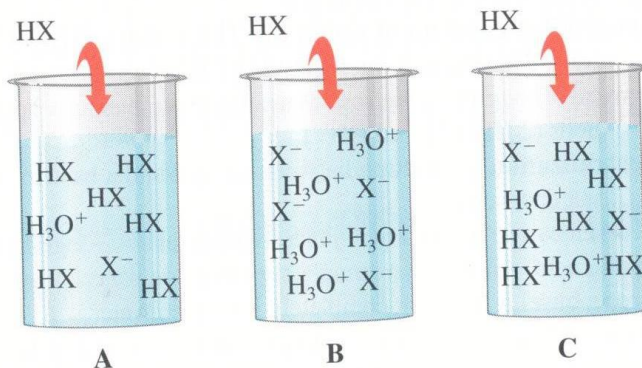
2. Identify the Brønsted-Lowry acid for each base shown below:



3. Identify the Brønsted-Lowry base for each acid shown below:



4. Each diagram below represents an acid solution with the formula HX. For each solution, determine if it is a strong acid or a weak acid.



5. Complete the missing information in the table below:

[H <sub>3</sub> O <sup>+</sup> ]	[OH <sup>-</sup> ]	Acidic/Basic
1.0 x 10 <sup>-12</sup>		
3.8 x 10 <sup>-4</sup>		
	4.2 x 10 <sup>-4</sup>	
	1.0 x 10 <sup>-9</sup>	
6.5 x 10 <sup>-8</sup>		

6. Identify each of the substances below as **strong electrolyte**, **weak electrolyte** or **non-electrolyte**:

a) KCl \_\_\_\_\_

b) HNO<sub>3</sub> \_\_\_\_\_

c) CH<sub>3</sub>OH \_\_\_\_\_

d) HF \_\_\_\_\_

e) H<sub>3</sub>PO<sub>4</sub> \_\_\_\_\_

