Due: 4/4/08, 11:15 AM	
Solve the following. Round pH values to the nearest 0.01 pH units (ex: $pH = 2.34$ ) [20]	
1) Calculate the pH of a buffer solution that contain with 0.20 M ammonia.	
2) Calculate the pH of the solution that results when (0.25 M ammonium chloride mixed with 0.20 M an hydrochloric acid.	n you mix 150. mL of the buffer above nmonia) with 5.0 mL of 0.25 M

3) Calculate the pH of an 0.18 M solution of sodium cyanide, NaCN. (Hint: HCN is the conjugate acid!)	
4) Classify these salts as <i>acidic</i> , <i>basic</i> , or <i>neutral</i> in water.  •Na <sub>2</sub> CO <sub>3</sub>	
•NaNO <sub>3</sub>	
•CH <sub>3</sub> NH <sub>2</sub> Cl	
•KC1	
•NH <sub>4</sub> NO <sub>3</sub>	
5) Calculate the pH of the solution that results when you add 25.0 mL of water to 75.0 mL of 0.18 M NH <sub>3</sub> .	
01 0.16 W 19113.	