Chem 130: Chemistry for Funeral Services Problem Set 6: Due 3/7/06

Date:

Name:

Each q	ach question is worth one point. Show your work wherever calculations are required.						
1.	What is pH? Why is it used for	acids and bases?					
2.	Write the equation for the auto-i considered to be neutral?	onization of water.	Explain what the ed	quation describes. Why is	pH 7		
3.	How is a weak acid different fro	m a strong acid? G	Give an example of e	ach.			
4.	How is the definition of acid different in e	erent in the Arrheni	us theory than the Bı	ronstead-Lowery theory?	How is the		
	definition of a base different in e	acii iiieoiy !					
5.	5. Fill in the following chart.						
N	ame of Acid	Conjugate Acid		Conjugate Base			
	Sulfuric						
		 	HCI				
				C ₂ H ₃ O ₂			

 H_3PO_4

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ıme	Formula
	Fill in the following chart.
	Plaster of Paris + Water →
	Ammonia + Water $ ightarrow$
	Sodium hydroxide + Phosphoric acid \rightarrow
9.	Write the chemical formulas, complete and balance the following equations. Give the names for all of the products. All of the reactions take place in aqueous solutions.
δ.	What is the difference between deliquescence and efflorescence? Give an example of each.
0	What is the difference between deliverence and officers are 2000 in an executive of each
	reactions?
7.	
6.	What is an amphoteric substance? Give an example.

Name	Formula
Sodium bicarbonate	
	H ₂ SO ₄
Magnesium chloride	
	кон
Hydrochloric Acid	
	HCIO₄
Calcium hydroxide	
	HNO₂