session 15 Answers

CH 105 SI

	Acids & Bases Introduction
1.	According to the Arrhenius Theory of acids and bases, acids give up H^+ in solution and bases give up H^- . This means that an acidic solution has more H^+ and a basic solution has more H^+
	solution has more OH . This means that an acidic solution has more OH .
2.	What are non-oxygen acids and how do you name them? Consist of a pritan and a harogen anion. Nydro-anion-ic-acid ex: HU hydro-chloric-acid What happens when an avasid ionizes?
3.	What happens when an oxyacid ionizes?
	The oxygen stays with the non-metal as part of
	an oxyanian.
When	naming acids with polyatomic ions (oxyacids)follow this rule:
	a. lons that end in "-ate" such as phosphate or nitrate: acid name ends in "-ic"
	i. Ex: nitrate + hydrogen= nitric acid
•	b. lons that end in "-ite" such as nitrite: acid ends in "-ous"
	i. Ex: nitrite + hydrogen= nitrous acid
4.	How do you name Arrhenius bases? The name of the cation + "nydroxide".
5.	
	acid and base? acid: H+ donor Amnenius bases involve base: H+ acceptor OH- Pather than H+.
	out bather than H'.
	base: Ht acceptor OH- Pather than H.
6.	In the following equations, label the acid, base, conjugate acid and conjugate base:

a.
$$H_2SO_4 + H_2O \rightarrow HSO_4 + H_3O^+$$

 $A \cap A$ $b \cap A \cap C$ $o \cap A$ $o \cap A$

c.
$$NH_3 + H_2O \rightarrow NH_4^+ + OH^-$$

Dase and conj. conj.