Session 8

Electron Configurations Review:

- 1. Which has a higher energy level? 4s or 3d?

 3d has nigher energy. This is why you fill the 4s suplevel before the 3d.
- 2. What is the electron configuration for Zn? $15^225^22p^635^23p^645^23d^{10}$

Chapter 5:

- 1. Define ionic and covalent compounds.
 ionic: Formed from ions (metals + nonmetals)
 covalent: Formed from atoms union share electrons,
 typically non-metals.
- 2. What is the octet rule? elements will gain or lose electrons to obtain an octed, union is eight electrons.
- 3. What are valence electrons? How many valence electrons does In have based on the electron configuration that you wrote above?

 Electrons in the outer energy ever that are available for memical reactions. In has I valence electrons.
- 4. What forms positive ions and what forms negative ions? Give a specific example of each.

 Mutais form positive ions. Nat

 nonmetais form regative ions. Ct
- 5. What is the overall charge of ionic compounds? Give a few of their properties.

neutral. nigh meeting point, may or may