Chemistry 115 Name

Dr. Cary Willard

Quiz 7a (20 points) April 6, 2010

1. (6 points) Write the complete electron configuration for an ion that is isoelectronic with neon. Explain why it is isoelectronic with neon.
2. (6 points) Write the shorthand electron configuration for an atom of nickel and then write the electronic configuration for a nickel(II) ion.
3. (4 points) Circle the atom with the higher ionization energy in each of the following pairs
   1. N or F
   2. Be or Sr
4. (4 points) Write the lewis electron dot structure for an atom of nitrogen.

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Quiz 7b (20 points) April 6, 2010

1. (6 points) Write the complete electron configuration for an ion that is isoelectronic with neon. Explain why it is isoelectronic with neon.
2. (6 points) Write the shorthand electron configuration for an atom of iron and then write the electronic configuration for a iron(II) ion.
3. (4 points) Circle the atom with the higher ionization energy in each of the following pairs
   1. O or Se
   2. Ca or Se
4. (4 points) Write the lewis electron dot structure for an atom of sulfur.