Chemistry 115 Name

Dr. Cary Willard

Quiz 4a (20 points) March 1, 2011

1. (3 points) Write the correct IUPAC name for each of the following compounds.
   1. BeCl2
   2. N2O4
   3. VF5
2. (3 points) Write the correct formula for each of the following compounds.
   1. Silver sulfide
   2. iron(II) nitride
   3. krypton hexachloride
3. (3 points) What is the shorthand electronic configuration of zirconium (Zr) as predicted by the periodic table?
4. (2 points) Give an example of an element that has 3 valence electrons.
5. (2 points) Write the lewis electron dot structure for an atom of oxygen.
6. (3 points) Define the term ionization energy.
7. (4 points) Circle the atom in each pair with the larger atomic radius
   1. Al or Cl
   2. C or Sn

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Quiz 4b (20 points) March 1, 2011

1. (3 points) Write the correct IUPAC name for each of the following compounds.
   1. Li2As
   2. C2Br6
   3. CrN2
2. (3 points) Write the correct formula for each of the following compounds.
   1. Zinc iodide
   2. Titanium(II) phosphide
   3. Xenon pentafluoride
3. (3 points) What is the shorthand electronic configuration of molybdenum (Mo) as predicted by the periodic table?
4. (2 points) Give an example of an element that has 5 valence electrons.
5. (2 points) Write the lewis electron dot structure for an atom of boron.
6. (3 points) Define the term ionization energy.
7. (4 points) Circle the atom in each pair with the larger atomic radius
   1. F or I
   2. K or Se

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Quiz 4c (20 points) March 3 2011

1. (3 points) Write the correct IUPAC name for each of the following compounds.
   1. CdCl2
   2. XeO6
   3. NiS
2. (3 points) Write the correct formula for each of the following compounds.
   1. Barium iodide
   2. Tin(IV) sulfide
   3. Tribromine octoxide
3. (3 points) What is the shorthand electronic configuration of antimony (Zr) as predicted by the periodic table?
4. (2 points) Give an example of an element that has 4 valence electrons.
5. (2 points) Write the lewis electron dot structure for an atom of chlorine.
6. (3 points) Define the term ionization energy.
7. (4 points) Circle the atom in each pair with the larger atomic radius
   1. P or Bi
   2. Rb or Te

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Quiz 4d (20 points) March 3, 2011

1. (3 points) Write the correct IUPAC name for each of the following compounds.
   1. ZnBr2
   2. KrF7
   3. FeP
2. (3 points) Write the correct formula for each of the following compounds.
   1. Cesium iodide
   2. Bismuth(V) fluoride
   3. Diphosphorus trisulfide
3. (3 points) What is the shorthand electronic configuration of Indium (In) as predicted by the periodic table?
4. (2 points) Give an example of an element that has 6 valence electrons.
5. (2 points) Write the lewis electron dot structure for an atom of silicon.
6. (3 points) Define the term ionization energy.
7. (4 points) Circle the atom in each pair with the larger atomic radius
   1. O or Te
   2. Sr or Xe