Chemistry 115 Name

Dr. Cary Willard

Quiz 7a (20 points) April 8, 2010

1. (6 points) Write the complete electron configuration for a cation that is isoelectronic with argon. Identify the cation and explain why it is isoelectronic with argon.
2. (6 points) Write the shorthand electron configuration for an atom of molybdenum (Mo) and then write the electronic configuration for a molybdenum(II) ion.
3. (4 points) Write the lewis electron dot structure for an atom of aluminum.
4. (4 points) Define what is meant by a polar bond and describe how you determine whether a bond is polar or non-polar.

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Quiz 7b (20 points) April 8, 2010

1. (6 points) Write the complete electron configuration for an anion that is isoelectronic with argon. Identify the anion and explain why it is isoelectronic with argon.
2. (6 points) Write the shorthand electron configuration for an atom of palladium (Pd) and then write the electronic configuration for a palladium(II) ion.
3. (4 points) Write the lewis electron dot structure for an atom of phosphorus.
4. (4 points) Define what is meant by a polar bond and describe how you determine whether a bond is polar or non-polar.