Chemistry 115 Name

Dr. Cary Willard

Quiz 7A (20 points) April 2, 2009

1. (2 points) How many protons are in the nucleus or a Osmium (Os) atom.
2. (3 points) Show the orbital diagram for an atom of oxygen.

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1s 2s 2p

1. (3 points) Write the complete electron configuration for an atom of chlorine.
2. (3 points) Write the shorthand electronic configuration (as predicted by the periodic table) for an atom of zirconium.
3. (3 points) Draw a lewis electron dot structure for silicon?
4. (3 points) How do atom sizes change as you move across the periodic table to the right?
5. (3 points) Explain the reason for the trend you described in question 6.

Chemistry 115 Name

Dr. Cary Willard

Quiz 7B (20 points) April 2, 2009

1. (2 points) How many protons are in the nucleus or a niobium (Nb) atom.
2. (3 points) Show the orbital diagram for an atom of oxygen.

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1s 2s 2p

1. (3 points) Write the complete electron configuration for an atom of aluminum.
2. (3 points) Write the shorthand electronic configuration (as predicted by the periodic table) for an atom of yttrium (Y).
3. (3 points) Draw a lewis electron dot structure for nitrogen?
4. (3 points) How do atom sizes change as you move across the periodic table to the right?
5. (3 points) Explain the reason for the trend you described in question 6.