Chemistry 115 - Name

Dr. Cary Willard

Quiz 7a (20 points) October 21, 2008

1. (3 points) Arrange the following atoms and ions in order of increasing atomic radius.
2. (4 points) Explain why ionization energy decreases as you move across the periodic table to the right.
3. (4 points) Evaluate the validity of the following statement

The halogens require large amounts of energy to give up an electron while it is energetically favorable for the alkali metals give up electrons.

Statement is true or false?

Justify your choice.

1. (3 points) Draw the lewis electron dot structure for a molecule of nitrogen (N2).
2. (6 points) Draw the lewis electron dot structure for formaldehyde CH2O. The skeleton structure is shown below.