Chemistry 115 Name

Dr. Cary Willard

Quiz 8A (20 points) April 14, 2009

1. (3 points) Draw a lewis electron dot structure for bromine?



1. (4 points) Draw a lewis electron dot structure for hydrogen sulfide, H2S.



1. (4 points) Draw a lewis electron dot structure for carbon disulfide, CS2.



1. (3 points) Why is it not proper to speak of sodium chloride molecules?

Sodium chloride does not form molecules. It is an ionic crystal and therefore it is better to talk about formula units.

1. (3 points) How do ionization energies change as you move across the periodic table to the right?

Ionization energies increase as you move across the periodic table to the right.

1. (3 points) Explain the reason for the trend you described in question 5.

As you move across the periodic table to the right, the effective nuclear increases due to an increase in the number of protons in the nucleus without much shielding of the charge by the electrons in that outer level.

Chemistry 115 Name

Dr. Cary Willard

Quiz 8B (20 points) April 14, 2009

1. (3 points) Draw a lewis electron dot structure for arsenic?



1. (4 points) Draw a lewis electron dot structure for hydrogen sulfide, H2S.



1. (4 points) Draw a lewis electron dot structure for carbon disulfide, CS2.



1. (3 points) Why is it not proper to speak of sodium chloride molecules?

Sodium chloride does not form molecules. It is an ionic crystal and therefore it is better to talk about formula units.

1. (3 points) How do ionization energies change as you move across the periodic table to the right?

Ionization energies increase as you move across the periodic table to the right.

1. (3 points) Explain the reason for the trend you described in question 5.

As you move across the periodic table to the right, the effective nuclear increases due to an increase in the number of protons in the nucleus without much shielding of the charge by the electrons in that outer level.