Chemistry 141 Name

Dr. Cary Willard

Quiz 9A (20 points) April 16, 2008

All work must be shown to receive credit.

1. (8 points) Draw the Lewis electron dot structures for the following molecules/ions. Show resonance structures where appropriate.
   1. SO3
   2. AsF6-1
2. (6 points) Explain the difference between a pure covalent bond, a polar covalent bond, and a pure ionic bond.

1. (6 points) What if the formal charge of atoms indicated in the molecule below?



C \_\_\_\_\_\_\_\_\_\_

N \_\_\_\_\_\_\_\_\_\_

O \_\_\_\_\_\_\_\_\_\_

Chemistry 141 Name

Dr. Cary Willard

Quiz 9B (20 points) April 16, 2008

All work must be shown to receive credit.

1. (8 points) Draw the Lewis electron dot structures for the following molecules/ions. Show resonance structures where appropriate.
   1. NO2-1
   2. SF4
2. (6 points) Explain the difference between a pure covalent bond, a polar covalent bond, and a pure ionic bond.

1. (6 points) What if the formal charge of atoms indicated in the molecule below?



C \_\_\_\_\_\_\_\_\_\_

N \_\_\_\_\_\_\_\_\_\_

O \_\_\_\_\_\_\_\_\_\_

Chemistry 141 Name

Dr. Cary Willard

Quiz 9C (20 points) April 17, 2008

All work must be shown to receive credit.

1. (8 points) Draw the Lewis electron dot structures for the following molecules/ions. Show resonance structures where appropriate.
   1. NO3-1
   2. ClF5
2. (6 points) Explain the difference between a pure covalent bond, a polar covalent bond, and a pure ionic bond.

1. (6 points) What if the formal charge of atoms indicated in the molecule below?



C \_\_\_\_\_\_\_\_\_\_

N \_\_\_\_\_\_\_\_\_\_

O \_\_\_\_\_\_\_\_\_\_

Chemistry 141 Name

Dr. Cary Willard

Quiz 9D (20 points) April 17, 2008

All work must be shown to receive credit.

1. (8 points) Draw the Lewis electron dot structures for the following molecules/ions. Show resonance structures where appropriate.
   1. CO3-2
   2. XeF4
2. (6 points) Explain the difference between a pure covalent bond, a polar covalent bond, and a pure ionic bond.

1. (6 points) What if the formal charge of atoms indicated in the molecule below?



C \_\_\_\_\_\_\_\_\_\_

N \_\_\_\_\_\_\_\_\_\_

O \_\_\_\_\_\_\_\_\_\_