Quiz 8 Name:_____

Chem 1A, Fall 2018

Fossum

1. (12) Draw the Lewis structure for each of the following. Remember to minimize formal charge when appropriate. If equivalent resonance structures are possible, show all equivalent structures. If non-equivalent resonance structures are possible, show only the best structure.

   a. HCN

   b. H_2CO_3

   c. IO_2^-

   d. IF_5

2. (4) Draw three different possible (valid) Lewis structures for SCN^-. (C is the central atom.) Determine the formal charge of each atom in each structure. Choose the best structure based on formal charge, and clearly explain your reasoning.

3. (4) a. Define lattice energy.

b. Rank the following in order from highest to lowest lattice energy, and explain the underlying reason(s) clearly: CsI, SrS, LiF