

College Prep Chemistry of the Earth System

Assignment 4C

20 Points

Multiple e⁻ Transfer Ionic Bonding

w/ Lewis Dot Structures

Answer the following questions

1. Why do some atoms accept multiple electrons vs. single electrons?
2. What are the possible ways that atoms can get electrons to form ionic bonds? (*one atom, multiple atoms, outside the atom, etc?*) Why?
3. For the following ionic compounds show the transfer of electrons, ion form, and ionic formula.
 - a. 1 Ca and 1 O
 - b. 1 Sr and 1 S
 - c. 2 Cu³⁺ and 3 O
 - d. 3 Ca and 2 N
 - e. 3 Cu²⁺ and 2 P
 - f. 1 Pb⁴⁺ and 2 S