College Prep Chemistry of the Earth System

Assignment 4B (Part 2)

30 Points

Single e Ionic Bonding

w/ Lewis Dot Structures

Answer the following questions

- 1. Explain the format X_aY_b. What does each part of the formula refer to?
- 2. What occurs in an ionic bonding process (in general)?
- 3. For the following ionic compounds show the transfer of electrons, ion form, and ionic formula.
 - a. 1 Li and 1 F
 - b. 1 Ca and 2 Br
 - c. 1 Al and 3 I
 - d. 1 Si (+4) and 4 Cl
 - e. 2 Na and 1 O
 - f. 3 Li and 1 N
 - g. 1 Ag¹⁺ and 1 Br h. 1 Fe²⁺ and 2 F

 - i. 2 Zn¹⁺ and 1 O
 - j. 3 Cu¹⁺ and 1 P