Vasquez High School -- AP Chemistry B -- Test #2a -- Chapter 9 -- 50 points

Write TRUE if the statement is true OR write the word(s) that substitutes for the underlined word(s) that would make it true. Writing false earns partial credit. Three points each.
1) The energy required to completely separate one mole of a solid ionic compound into its gaseous ions is called the <u>ionization</u> energy2) The C - O bond is <u>shorter</u> than the C = O bond.
3) The polarity of a covalent bond is caused by a difference in <u>electronegativities</u> .
4) Carbon disulfide, CS ₂ , is most assuredly a <u>non-polar covalent</u> compound since the electronegativities of carbon and sulfur are equal5) The formation of an ionic bond is <u>endothermic</u> .
Short Answer/Fill-in/Diagram section. Be neat and complete. Three points each.
6) What is the octet rule?
7) Show two resonant Lewis structures for the ozone, O ₃ , molecule.
8) For a point each give Lewis dot diagrams for aluminum, oxygen, and iodine.
9) Considering ionicly vs. covalently bonded compounds, give three pairs of contrasting qualities: COVALENT
10) Why does beer foam up when you pour salt in it?

