Chemistry 141 Name

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Quiz 8 (20 points) November 9, 2010

1. (4 points) Sodium atom are much larger than chlorine atoms, but in NaCl sodium ions are much smaller than chloride ions. Why?
2. ( points) Draw a Lewis Structure for the following, give the correct geometry around central atom(s) and tell the hybridization of each atom.
   1. NO+1
   2. N2O2, (draw as a linear skeleton structure with nitrogen in the center flanked by the oxygens)
   3. XeF5+1
3. Draw Lewis structure for NOF3 and POD3 in which the group 15 element is the central atom and the other atoms are bonded to it. What differences are there in the types of bonding n these molecules?