Chemistry 115 Name

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Quiz 7a (20 points) November 4, 2008

1. (3 points) Circle the pair of structures below that represent resonance structures



1. (3 points) Identify the bonding electrons and lone pairs in the diagram below

Bonding electrons

Lone pairs



1. (10 points) Draw Lewis Electron Dot structures for the following molecules/ions
   1. NCl3



* 1. SO3-2





1. (4 points)Tell the orbital and molecular geometry of the oxygen (between H and C) and nitrogen atoms in the structure on the right:

O orbital geometry tetrahedral molecular geometry bent

N orbital geometry tetrahedral molecular geometry trigonal pyramidal