**Mini-quiz #21 Chemistry 1114 Wednesday 6 November 2013**

**4 pts**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A**

**Using your Periodic Table (or one provided):**

1. NO is a neutral molecule which can trigger unusual responses in your body’s metabolism. Draw the most reasonable structure you can noting that O is more likely to satisfy the octet rule than N because of its higher electronegativity. (show all lone pairs, unpaired electrons and formal charges if any)



2a. Draw the most stable version of ClO3-1 assuming that all the O attach to Cl only .

(show all lone pairs and formal charges if present)



5/3=1.67

2b. What is the Cl-O bond order of your structure ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_= Cl-O bond order