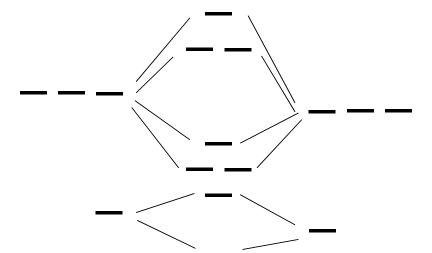
Quiz 1

- 1. (20 pts) Draw a Lewis Structure for NO⁺.

 2. (20 pts.) Draw a Lewis structure for CH₃CH(OH)CH₃.
- 3. (40 pts.) An MO diagram for NO is provided below. When elements with different electronegativities are involved, the atomic orbitals for the more electronegative element are drawn lower on the page.
- a. Identify and label the atomic orbitals.
- b. Label the molecular orbitals
- c. Add the appropriate number of electrons to the atomic orbitals
- d. Add the appropriate number of electrons to the molecular orbitals.
- e. Determine the bond order for NO.



f. If you remove an electron from the highest energy molecular orbital, would the bond order increase or decrease?