**Pre-lab Questions – Experiment 2: Electronic Structure Calculations**

*Write answers to the following questions on this page and bring it with you to lab. Show all your work and use correct significant figures and citations*

1) Draw the Full MO diagram for ground state $N_2$ (use your text as a reference)

2) Calculate the % ionic character for $H_2$, LiF, HF.

3) Using the MO diagram for $N_2$, calculate the bond order of $N_2^+$?