

Chemistry 651

Problem set 3

Due: 23 May 2006

From your text,

1. 7.23
2. 7.27
3. 7.31
4. Use either your text, or the literature to define the bulleted items on page 356 (third edition).
5. Write the Hartree Fock equations for the effective one electron HF operator for the $\sigma_g 1s$ and $\pi_g 2p$ orbitals of N_2 using a minimal basis set (1s,2s,2p) for each atom.