Problem Set 5B

- 1. Derive the term states for each of the following configurations and express them in the form $^{(2S+1)}L_J$
 - a) $1s^2 2p^1$
 - b) $1s^{1}2p^{1}$
 - c) $2p^{1}3p^{1}$
 - d) $2p^{1}3d^{1}$
 - e) 1s²2s²2p⁶3s¹3p¹ f) 1s²2s²2p⁶