Chemistry 141 - 4076 Name .

Dr. Cary Willard

Quiz 8A (20 points) October 22, 2007

1. (4 points) Write the electron configurations for the following atoms as predicted by the periodic table.
   1. P (complete configuration)
   2. W (shorthand configuration)
2. (4 points) Write the electron configurations for the following ions
   1. O-2 (complete configuration)
   2. Ti +2 (shorthand configuration)
3. (5 points) Molybdenum has an anomalous configuration. What do you propose as the configuration of Mo and why? Would this atom be diamagnetic or paramagnetic?
4. (2 points) What are two atoms or ions that are isoelectronic with Se-2.
5. (5 points) Circle the larger particle from the following pairs
   1. Al or In
   2. C or F
   3. Li or Li+1
   4. Si or N
   5. S-2 or Ca+2

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Quiz 8B (20 points) October 22, 2007

1. (4 points) Write the electron configurations for the following atoms as predicted by the periodic table.
   1. S (complete configuration)
   2. Ta (shorthand configuration)
2. (4 points) Write the electron configurations for the following ions
   1. N-3 (complete configuration)
   2. V +2 (shorthand configuration)
3. (5 points) Molybdenum has an anomalous configuration. What do you propose as the configuration of Mo and why? Would this atom be diamagnetic or paramagnetic?
4. (2 points) What are two atoms or ions that are isoelectronic with Te-2.
5. (5 points) Circle the larger particle from the following pairs
   1. Si or Sn
   2. B or O
   3. Cl or Cl-1
   4. Alor C
   5. O-2 or Mg+2