Chemistry 115 - Name

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Quiz 6a (20 points) October 21, 2008

1. (3 points) How many electrons are allowed in a 3d orbital?
2. (3 points) How many electrons are allowed in a 3p sublevel?
3. (3 points) Write the complete electron configuration for an atom of phosphorus.
4. (3 points) Write the complete electron configuration for an atom of iron.
5. (3 points) write the shorthand electron configuration for an atom of molybdenum.
6. (3 points) An atom of neon is isoelectronic with a Mg+2 ion. What is meant by this statement?
7. (2 points) Write an electron dot diagram for an atom of carbon.