Chemistry 115 Name Key

Dr. Cary Willard

Quiz 6a (20 points) March 23, 2010

1. (2 points) How many electrons are there in an orbital?

2

1. (4 points) how does an orbit differ from an orbital?

An orbit is an elliptical path proposed for an electron by Bohr.

An orbital is the region in space occupied by an electron as predicted by quantum.

1. (2 points) How many electrons are there in a p sublevel

6

1. (4 points) Write the complete electron configuration for an atom of sulfur.

S 1s2 2s2 2p6 3s2 3p4

1. (4 points) Write the shorthand electron configuration for an atom of manganese.

Mn [Ar] 4s2 3d5

1. (2 points) Write an important property of a gas that can be collected by displacement of water.

It must not dissolve in water.

1. (2 points) Circle the oxides in the following group.

K2O Cu(OH)2 C3H5O2 SO3

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Quiz 6b (20 points) March 23, 2010

1. (2 points) How many electrons are there in an orbital?

2

1. (4 points) how does an orbit differ from an orbital?

An orbit is an elliptical path proposed for an electron by Bohr.

An orbital is the region in space occupied by an electron as predicted by quantum.

1. (2 points) How many electrons are there in a d sublevel

10

1. (4 points) Write the complete electron configuration for an atom of silicon.

Si 1s2 2s2 2p6 3s2 3p2

1. (4 points) Write the shorthand electron configuration for an atom of cobalt.

Co [Ar] 4s2 3d7

1. (2 points) Write an important property of a gas that can be collected by displacement of water.

It must not dissolve in water.

1. (2 points) Circle the oxides in the following group.

AgOH ZnO ClO2 C5H8O2