Chem 1013 mini-quiz 5 Monday 11 Sept 2017 A

Your name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Order these wavelengths from lowest to highest energy: 350 nm 200 nm 750 nm

 \_\_\_\_750\_\_\_\_\_\_ < \_\_350\_\_\_\_\_\_\_<\_\_\_200\_\_\_\_\_\_\_\_

 Increasing energy 🡪

1. Order these colors of light from lowest to highest energy: blue yellow red

 \_red\_\_\_\_\_\_ < \_yellow\_\_\_<\_\_\_blue\_\_\_

 Increasing energy 🡪

1. In Bohr’s theory of the atom, an atom emits light when: (circle answer)
2. The electron moves from lower to higher n
3. The electron spins slower in its orbit
4. The electron moves from higher to lower n
5. The electron gets tired and takes a nap

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Your name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Order these colors of light from highest to lowest energy: red violet green

 \_\_\_violet\_\_\_\_\_\_\_ > \_green\_\_\_\_\_\_\_\_>\_\_\_\_red\_\_\_\_\_\_\_

 decreasing energy 🡪

2. In Bohr’s theory of the atom, an atom emits light when: (circle answer)

a)The electron moves from higher to lower n

b)The electron gets tired and takes a nap

c)The electron moves from lower to higher n

d)The electron spins slower in its orbit

 3. Order these light frequencies from lowest to highest energy: 4000 Hz 3000 Hz 10,000 Hz

 \_\_\_3000\_\_ < \_\_\_4000\_\_\_\_\_\_<\_\_\_10,000\_\_\_\_\_\_\_\_

 Increasing energy 🡪

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1. Which wavelength listed here has the lowest associated frequency, f ? 300 nm 400 nm 500 nm

\_\_\_\_\_\_\_500 nm\_\_\_\_\_\_\_\_\_ wavelength with lowest f

1. Order these colors of light from lowest to highest energy: violet green red

 \_\_\_red\_\_\_\_\_\_\_ < \_\_green\_\_\_\_\_\_\_<\_\_\_violet\_\_\_\_\_\_\_\_

 Increasing energy 🡪

2. In Bohr’s theory of the atom, an atom absorbs light when: (circle answer)

a)The electron moves from higher to lower n

b)The electron gets tired and takes a nap

c)The electron moves from lower to higher n

d)The electron spins slower in its orbit