**Mini-quiz #6 Chemistry 1114 Monday 9 September 2013**

Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A

1. **How do chemist’s describe elements ? (circle your choice)**

1. **A mystery element X is discovered in deep space . It’s isotopic abundance**

**vs. atomic mass are below:**

**Isotope mass % isotopic abundance**

**300 10**

**304 65**

**306 25**

**Compute the average atomic mass of X : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ amu**

**average Atomic mass of X**

1. **If the speed of light is c=3\*108 m/s, what is the wavelength of light λ in**

**meters with a frequency of 1.5\*107 Hz ?**

**λ=\_\_\_\_\_\_\_\_\_\_\_\_ m**

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1. **Which is the chemist’s version of an element ? (circle your choice)**

**6**

**C**

**12.01**

1. **A mystery element Y is discovered in deep space . It’s isotopic abundance**

**vs. atomic mass are below:**

**Isotope mass % isotopic abundance**

**290 20**

**294 50**

**296 30**

**Compute the average atomic mass of Y : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ amu**

**average Atomic mass of Y**

1. **If the speed of light is c=3\*108 m/s, what is the frequency of light f in**

**Hz with a wavelength of 20 m ?**

**f=\_\_\_\_\_\_\_\_\_\_\_\_ Hz**