**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**