**Mini-quiz #28 Chemistry 1114 section 2 (Fong) 12 Nov 2014 3 pts A**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**According to Rutherford’s gold leaf experiment:**

**a) the nucleus is a small dot in the center of a diffuse cloud of electrons**

b) the positive and negative material of an atom are smeared out in a `plum pudding’ fashion

c) electrons orbit in circles around a nucleus

d) neutrons exist.

**The ratio of the electron orbit to nuclear radius is:**

a) 1:1

b) 10:1

c) 1000:1

d) 100,000:1

**The relative mass relationship between protons (P) , neutrons (N) and electrons (E) is:**

a) E >>P>>N

b) P=N >> E

c) P=E >> N

d) P=N=E

**Mini-quiz #28 Chemistry 1114 section 2 (Fong) 12 Nov 2014 3 pts B**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**The ratio of the electron orbit to nuclear radius is:**

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