**Mini-quiz #7 Chemistry 1114 Wednesday 11 September 2013**

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

Given that: h=6.63\*10-34 J\*s ; c=3\*108 m/s and E/photon=hf

1. What is the frequency of photon with λ=1.5\*102 m

 \_\_\_\_\_\_\_\_\_ Hz

1. What is the energy of the photon described above ?

\_\_\_\_\_\_\_\_ J/photon

1. The energy of a photon is 6.63\*10-20 J/photon.
2. What is its frequency ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hz
3. What is its wavelength ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ m

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Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B

Given that: h=6.63\*10-34 J\*s ; c=3\*108 m/s and E/photon=hf

1. What is the frequency of photon with λ=30 m

 \_\_\_\_\_\_\_\_\_ Hz

1. What is the energy of the photon described above ?

\_\_\_\_\_\_\_\_ J/photon

1. The energy of a photon is 6.63\*10-19 J/photon.
2. What is its frequency ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hz
3. What is its wavelength ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ m