

## Assessment

## Chapter Test B

## Atomic Physics

### MULTIPLE CHOICE

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

1. What is the frequency of a photon with an energy of  $1.99 \times 10^{-19} \text{ J}$ ?  
( $h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s}$ )  
**a.**  $1.00 \times 10^{14} \text{ Hz}$   
**b.**  $2.00 \times 10^{14} \text{ Hz}$   
**c.**  $3.00 \times 10^{14} \text{ Hz}$   
**d.**  $4.00 \times 10^{14} \text{ Hz}$
2. Light with an energy equal to three times the work function of a given metal causes the metal to eject photoelectrons. What is the ratio of the maximum photoelectron kinetic energy to the work function?  
**a.** 1 : 1  
**b.** 2 : 1  
**c.** 3 : 1  
**d.** 4 : 1
3. A monochromatic light beam with a quantum energy value of 3.0 eV is incident upon a photocell. The work function of the photocell is 1.6 eV. What is the maximum kinetic energy of the ejected electrons?  
**a.** 4.6 eV  
**b.** 4.8 eV  
**c.** 1.4 eV  
**d.** 2.4 eV
4. What causes the bright lines in the emission spectrum of an element to occur?  
**a.** Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.  
**b.** Photons are emitted when electrons jump from a higher-energy to a lower-energy state.  
**c.** Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.  
**d.** Photons are emitted when electrons jump from a lower-energy to a higher-energy state.
5. What causes the dark lines in the absorption spectrum of an element to occur?  
**a.** Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.  
**b.** Photons are emitted when electrons jump from a higher-energy to a lower-energy state.  
**c.** Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.  
**d.** Photons are emitted when electrons jump from a lower-energy to a higher-energy state.

# Holt Physical Science Chapter 14 Chemical Reactions

## Chapter Test

**William L. Ramsey**



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