

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## 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  $1.00 \times 10^{-19} \text{ J}$ ?  
 $(h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s})$ 
  - 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.

# Physical Science Chapter 10 Test

**Murray Shukyn, Achim K. Krull**



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