

### Abstract

## 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 Physics Chapter 17 Test Answers

**Anthony S. Fauci**



## **Holt Physics Chapter 17 Test Answers:**

## **Holt Physics Chapter 17 Test Answers** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Holt Physics Chapter 17 Test Answers**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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