#### Chapter 5 Assessment

pages 166-169

#### Section 5.1

#### Mastering Concepts

- 34. Define the following terms.
  - a. frequency

Frequency is the number of waves that pass a given point per second.

b. wavelength

Wavelength is the shortest distance between equivalent points on a continuous wave.

quantum.

A quantum is the minimum amount of energy that can be lost or gained by an atom.

ell ground state

An atom's ground state is its lowest allowable energy state.

- Arrange the following types of electromagnetic radiation in order of increasing wavelength.
  - a. ultraviolet light
  - b. naicrowaves
  - radio waves.
  - dl. X rays.

d. X rays, a. ultraviolet light, b. microwaves,
c. radio waves

36. A gamma ray has a frequency of 2.88 × 10<sup>21</sup> Hz. What does that mean?

2.88 × 10<sup>21</sup> gamma-ray electromagnetic waves of this frequency pass a given point per second.

37. What is the photoelectric effect?

a phenomenon in which a metal emits electrons when light of a sufficient frequency shines on it

38. Neon Sign How does light emitted from a neon sign differ from sunlight?

The light from a neon sign contains only certain visible colors, while sunlight contains the full spectrum of colors.  Explain Planck's quantum concept as it relates to energy lost or gained by matter.

According to Planck, for a given frequency, v, matter can emit or absorb energy only in discrete quanta that are whole-number multiples of hv, where h is Planck's constant.

40. How did Einstein explain the photoelectric effect?

He proposed that photons must have a certain minimum energy level, or threshold, value to cause the ejection of a photoelectron.

41. Rainbow What are two differences between the red and green electromagnetic waves in a rainbow?

The red waves have a longer wavelength and a lower frequency.

42. Temperature What happens to the light emitted by a heated, glowing object as its temperature increases?

The color of the light changes as the object acquries more and more energy.

43. What are three deficiencies of the wave model of light related to light's interaction with matter?

The wave model does not explain the photoelectric effect, atomic emission spectra, and why matter emits different frequencies of light at different temperatures.

44. How are radio waves and ultraviolet waves similar? How are they different?

Both types of waves travel at the same speed in a vacuum,  $3.00 \times 10^6$  m/s. Radio waves have a longer wavelength and lower frequency than ultraviolet waves.

73

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**Alexander Lockhart Gillespie** 

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  - Advantages of eBooks Over Traditional Books
- 2. Identifying Assessment Solution Manual Chemistry
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Assessment Solution Manual Chemistry
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Assessment Solution Manual Chemistry
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  - Assessment Solution Manual Chemistry User Reviews and Ratings
  - Assessment Solution Manual Chemistry and Bestseller Lists
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  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Assessment Solution Manual Chemistry
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  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Assessment Solution Manual Chemistry
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Assessment Solution Manual Chemistry
  - Setting Reading Goals Assessment Solution Manual Chemistry
  - Carving Out Dedicated Reading Time
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  - Fact-Checking eBook Content of Assessment Solution Manual Chemistry
  - Distinguishing Credible Sources
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  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
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  - Integration of Multimedia Elements
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