#### CHAPTER 5 REVIEW

# The Periodic Law

# SECTION 1

SHORT ANSWER Answer the following questions in the space provided.

- \_ ⊆ In the modern periodic table, elements are ordered
  - (a) according to decreasing atomic mass.
  - (b) according to Mendeleev's original design.
  - (c) according to increasing atomic number.
  - (d) based on when they were discovered.
- Mendeleev noticed that certain similarities in the chemical properties of elements appeared at regular intervals when the elements were arranged in order of increasing
  - (a) density.

(c) atomic number.

(b) reactivity.

- (d) atomic mass.
- The modern periodic law states that
  - (a) no two electrons with the same spin can be found in the same place in an atom.
  - (b) the physical and chemical properties of an element are functions of its atomic number.
  - (c) electrons exhibit properties of both particles and waves.
  - (d) the chemical properties of elements can be grouped according to periodicity, but physical properties cannot.
- 4. \_ C The discovery of the noble gases changed Mendeleev's periodic table by adding a new
  - (a) period.

(c) group.

(b) series.

- (d) level.
- 5. \_\_d \_\_ The most distinctive property of the noble gases is that they are
  - (a) metallic.

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(c) metalloid.

(b) radioactive.

- (d) largely unreactive.
- Lithium, the first element in Group 1, has an atomic number of 3. The second element in this group has an atomic number of
  - (a) 4.

(c) 11.

(b) 10.

- (d) 18.
- 7. An isotope of fluorine has a mass number of 19 and an atomic number of 9.
  - 9 a. How many protons are in this atom?
  - 10 b. How many neutrons are in this atom?
  - 19F c. What is the nuclear symbol of this fluorine atom, including its mass number and atomic number?

33

# **Periodic Law Section Quiz Answer Key**

**David Baud** 

#### **Periodic Law Section Quiz Answer Key:**

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- 1. Understanding the eBook Periodic Law Section Quiz Answer Key
  - The Rise of Digital Reading Periodic Law Section Quiz Answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Periodic Law Section Quiz Answer Key
  - 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 Periodic Law Section Quiz Answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Periodic Law Section Quiz Answer Key

- Personalized Recommendations
- Periodic Law Section Quiz Answer Key User Reviews and Ratings
- Periodic Law Section Quiz Answer Key and Bestseller Lists
- 5. Accessing Periodic Law Section Quiz Answer Key Free and Paid eBooks
  - Periodic Law Section Quiz Answer Key Public Domain eBooks
  - Periodic Law Section Quiz Answer Key eBook Subscription Services
  - Periodic Law Section Quiz Answer Key Budget-Friendly Options
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