

## Chapter 5 Practice Test

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_ 1. The product of the frequency and the wavelength of a wave equals the  
a. number of waves passing a point in a second.  
b. speed of the wave.  
c. distance between wave crests.  
d. time for one full wave to pass.
- \_\_\_\_ 2. Visible light, X rays, infrared radiation, and radio waves all have the same  
a. energy.  
b. wavelength.  
c. speed.  
d. frequency.
- \_\_\_\_ 3. The speed of an electromagnetic wave is equal to the product of its wavelength and its  
a. mass.  
b. color.  
c. velocity.  
d. frequency.
- \_\_\_\_ 4. Because  $c$ , the speed of electromagnetic radiation, is a constant, the wavelength of the radiation is  
a. proportional to its frequency.  
b. equal to its frequency.  
c. inversely proportional to its frequency.  
d. double its frequency.
- \_\_\_\_ 5. For an electron in an atom to change from the ground state to an excited state,  
a. energy must be released.  
b. energy must be absorbed.  
c. radiation must be emitted.  
d. the electron must make a transition from a higher to a lower energy level.
- \_\_\_\_ 6. If electrons in an atom have the lowest possible energies, the atom is in the  
a. ground state.  
b. inert state.  
c. excited state.  
d. radiation-emitting state.
- \_\_\_\_ 7. According to Bohr, electrons cannot reside at \_\_\_\_ in the figure below.



- a. point A  
b. point B  
c. point C  
d. point D
- \_\_\_\_ 8. A spherical electron cloud surrounding an atomic nucleus would best represent  
a. an  $s$  orbital.  
b. a  $p_x$  orbital.  
c. a combination of  $p_x$  and  $p_y$  orbitals.  
d. a combination of an  $s$  and a  $p_x$  orbital.
- \_\_\_\_ 9. The *total* number of orbitals that can exist at the second main energy level is

# Holt Chapter Test Atoms And Periodic Table Answers

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The Basics of Atoms and Molecules Tom Jackson,2013-12-15 A fun filled introduction to matter the elements of the periodic table atoms electrons reactions and bonding and radioactivity this volume provides young adults with chemistry examples that reflect their real world interconnections in science Key terms easy experiments and clear illustrations help to guide students through chemical applications A chapter about Niels Bohr and his model for the atom honors his contribution to the understanding of atomic structure and to nuclear fission Tools and techniques such as a scanning tunneling microscope Rutherford s gold foil experiment and a mass spectrometer highlight this instructive text that is aligned to the Common Core Standards

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