

## CHAPTER 5: ELECTRONS IN ATOMS

## CHEMISTRY

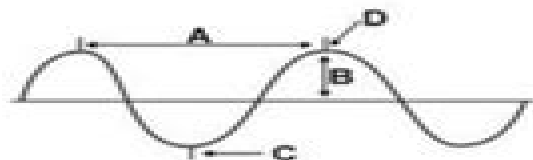
### True/False

Indicate whether the statement is true or false.

- \_\_\_\_\_ 1. There are a total of 5 *d*-orbitals.
- \_\_\_\_\_ 2. The photoelectric effect describes the emission of electrons from a metal's surface when light at a specific frequency shines on it.
- \_\_\_\_\_ 3. Although the precise location of an electron cannot be determined, it is possible to determine the probability that an electron will occupy a certain region around the nucleus.
- \_\_\_\_\_ 4. In the visible light spectrum, red light has a greater frequency (energy) than violet light.
- \_\_\_\_\_ 5.  $[\text{Kr}]5s^24d^{10}5p^1$  is the correct electron configuration for the element Bromine.
- \_\_\_\_\_ 6. The maximum number of allowed valence electrons in any atom is 8.
- \_\_\_\_\_ 7. Each element has its own unique emission spectrum.

### Multiple Choice

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



- \_\_\_\_\_ 8. Which label identifies the amplitude of the wave shown?  
a. A  
b. B  
c. C  
d. D
- \_\_\_\_\_ 9. Which label identifies the wavelength of the wave shown?  
a. A  
b. B  
c. C  
d. D
- \_\_\_\_\_ 10. Which label identifies the trough of the wave shown?  
a. A  
b. B  
c. C  
d. D



- \_\_\_\_\_ 11. Which diagram shows a wave with the highest frequency?

# Electrons In Atoms Chapter Answer Key

**Victor M. Corman**



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