



# IONIC AND METALLIC BONDING

## Chapter Test A

### A. Matching

Match each description with the correct vocabulary word or phrase. Write the letter of the correct word or phrase in the space.

#### Column A

- \_\_\_\_\_ 1. crystalline structure
- \_\_\_\_\_ 2. body-centered
- \_\_\_\_\_ 3. cubic crystal
- \_\_\_\_\_ 4. anion
- \_\_\_\_\_ 5. cation
- \_\_\_\_\_ 6. ionic bond
- \_\_\_\_\_ 7. metal
- \_\_\_\_\_ 8. alloy
- \_\_\_\_\_ 9. metallic bond
- \_\_\_\_\_ 10. nonmetal
- \_\_\_\_\_ 11. ionic compound
- \_\_\_\_\_ 12. ionic bond

#### Column B

- \_\_\_\_\_ 13. regular, ordered, and repeating arrangement of atoms
- \_\_\_\_\_ 14. the smallest repeating unit of a crystal lattice
- \_\_\_\_\_ 15. the distance between adjacent layers of atoms
- \_\_\_\_\_ 16. the smallest repeating unit for positive charges
- \_\_\_\_\_ 17. a regular, ordered arrangement of positive and negative charges
- \_\_\_\_\_ 18. group of 8 valence electrons
- \_\_\_\_\_ 19. loss of electrons
- \_\_\_\_\_ 20. the [electron] gained or lost energy for each atom
- \_\_\_\_\_ 21. atoms that are electrically held in an overall neutral combination of a cation and an anion
- \_\_\_\_\_ 22. atoms that are electrically held in an overall neutral combination of a cation and an anion
- \_\_\_\_\_ 23. regular repeating unit of ions in a crystal lattice

### B. Multiple Choice

Write the letter of the correct choice in the space provided.

- \_\_\_\_\_ 24. Which bond is the strongest?  
a. ionic  
b. covalent  
c. metallic  
d. hydrogen

# Answer Key For Chapter 7 Ionic And Metallic

**Michael E. Barrett, Lynn Ellen  
Katz, Scott Michael Taylor, John Joseph  
Sansalone, Marty Stevenson**

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