



# IONIC AND METALLIC BONDING

## Chapter Test A

### A. Matching

Match each definition with the correct term. Write the letter of the correct term in the space provided.

#### Column I

- \_\_\_\_\_ 1. electrical energy
- \_\_\_\_\_ 2. ionization
- \_\_\_\_\_ 3. ionic bonding
- \_\_\_\_\_ 4. electron
- \_\_\_\_\_ 5. conductivity
- \_\_\_\_\_ 6. lattice ion
- \_\_\_\_\_ 7. atom
- \_\_\_\_\_ 8. compound
- \_\_\_\_\_ 9. crystalline
- \_\_\_\_\_ 10. amorphous
- \_\_\_\_\_ 11. metallic bond

#### Column II

- \_\_\_\_\_ 12. the attractive force between oppositely charged ions
- \_\_\_\_\_ 13. the attractive force between metal ions and electrons
- \_\_\_\_\_ 14. the attractive force between oppositely charged ions together
- \_\_\_\_\_ 15. the attractive force between the positive ions
- \_\_\_\_\_ 16. a substance that conducts heat and electricity
- \_\_\_\_\_ 17. regular structure that exists
- \_\_\_\_\_ 18. the loss of electrons
- \_\_\_\_\_ 19. an atom with a positive charge and a negative charge
- \_\_\_\_\_ 20. the loss of electrons from an atom to form a cation
- \_\_\_\_\_ 21. atoms are held together by forces of attraction
- \_\_\_\_\_ 22. the electrical conductivity of metals is caused by

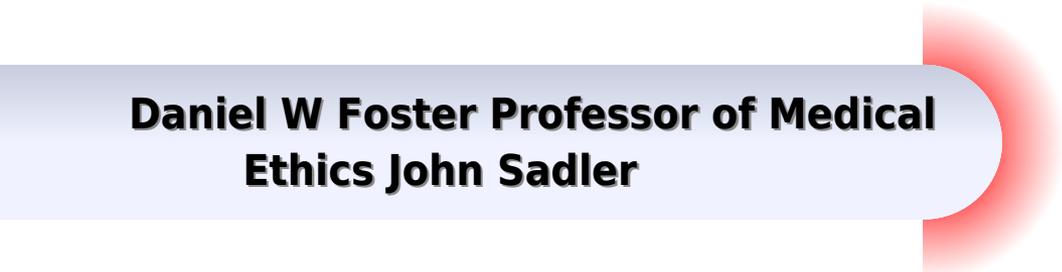
### B. Multiple Choice

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

- \_\_\_\_\_ 23. How many valence electrons does an atom of potassium (K) have?
  - (A) 1
  - (B) 2
  - (C) 3
  - (D) 4

# Chapter 7 Ionic And Metallic Bonding Test Answers

**Daniel W Foster Professor of Medical  
Ethics John Sadler**



## **Chapter 7 Ionic And Metallic Bonding Test Answers:**

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