

Assessment

Chapter 3 Practice Test

Chemical Compounds

MULTIPLE CHOICE

Circle the letter of the best answer for each question.

1. What compounds are brittle and have high melting points?
 - a. covalent
 - b. organic
 - c. ionic
 - d. nucleic
2. What force of attraction holds atoms or ions together?
 - a. chemical bond
 - b. chemical reaction
 - c. nucleic acid
 - d. neutralization
3. Why should you NEVER taste or touch an unknown acid?
 - a. It could be corrosive.
 - b. It could be slippery.
 - c. It could smell bad.
 - d. It could bite you.
4. What do foods that taste sour usually contain?
 - a. acid
 - b. base
 - c. indicator
 - d. water

Chapter Test C *continued*

Circle the letter of the best answer for each question.

5. What compound used in cleaners feels slippery?
 - a. acid
 - b. sugar
 - c. salt
 - d. base

6. In what type of solution do all the molecules of an acid break apart in water?
 - a. weak acid
 - b. strong acid
 - c. medium acid
 - d. neutral

7. What is left when a base and an acid neutralize?
 - a. hydrochloric acid
 - b. pH
 - c. hydronium ions
 - d. water and a salt

8. What kind of melting point do ionic compounds have?
 - a. low
 - b. neutral
 - c. strong
 - d. high

9. What type of acid is used to make plastics?
 - a. nitric
 - b. hydrochloric
 - c. sulfuric
 - d. carbonic

Chapter Test C *continued*

MATCHING

Read the description. Then, draw a line from the dot next to each description to the matching word.

- | | | |
|-------------------------------|---|------------------|
| 10. made of sugar molecules | ● | a. proteins |
| 11. do not dissolve in water | ● | b. lipids |
| 12. made of amino acids | ● | c. carbohydrates |
| 13. store genetic information | ● | d. nucleic acids |
-
- | | | |
|---|---|-----------------------|
| 14. formed by a metal and a nonmetal | ● | a. hydrocarbons |
| 15. can be saturated or unsaturated | ● | b. ionic compounds |
| 16. change color depending on conditions such as pH | ● | c. covalent compounds |
| 17. formed by atoms that share an electron | ● | d. indicators |

Chapter Test C *continued***FILL-IN-THE-BLANK**

Read the words in the box. Read the sentences. **Fill in each blank** with the word or phrase that best completes the sentence.

pH

neutralization reaction

salt

18. A value used to express acidity or alkalinity is called

_____.

19. When an acid neutralizes a base, a(n) _____ and water are made.

20. The reaction between acids and bases is called a(n)

_____.

biochemicals

organic compounds

21. Over 90% of all compounds are _____.

22. Organic compounds made by living things are called

_____.