

Directed Reading B *continued*

11. Name the six elements that make up most of the human body.

12. What do carbon's special bonding abilities allow carbon to do?

13. Name two types of organic compounds that can be manufactured.

Directed Reading B

Section: Compounds of Living Things

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

- _____ 1. Carbohydrates, lipids, proteins, and nucleic acids are the four categories of
- living things.
 - carbons.
 - organic compounds.
 - biochemicals.

CARBOHYDRATES

- _____ 2. Carbohydrates are biochemicals that are composed of one or more
- lipids.
 - sugar molecules.
 - organic compounds.
 - starch molecules.
- _____ 3. Simple carbohydrates are made up of
- simple sugars.
 - cellulose.
 - proteins.
 - lipids.
- _____ 4. Complex carbohydrates may be made of thousands of
- lipids.
 - simple sugars.
 - proteins.
 - nucleic acids.
- _____ 5. Living things commonly use carbohydrates as a source of
- fat.
 - genetic material.
 - energy.
 - protein.

LIPIDS

- _____ 6. Lipids are biochemicals that do not
- store excess energy.
 - make up cell membranes.
 - dissolve in water.
 - store vitamins.

Directed Reading B *continued*

- _____ **7.** Fats, oils, and waxes are
- a.** lipids.
 - b.** carbohydrates.
 - c.** proteins.
 - d.** sugars.

PROTEINS

- _____ **8.** Proteins are biochemicals made up of “building blocks” called
- a.** sugars.
 - b.** amino acids.
 - c.** nucleic acids.
 - d.** lipids.

- _____ **9.** An example of a protein is
- a.** olive oil.
 - b.** sugar.
 - c.** hemoglobin.
 - d.** fiber.

- 10.** List three roles that proteins have in the human body.

- 11.** What are the largest molecules made by living organisms called?

- 12.** What are nucleic acids made up of?

- 13.** How do nucleotides cause living things to differ from one another?

- 14.** What are nucleic acids sometimes called because they contain all the information needed for a cell to make its proteins?

- 15.** What are the two main kinds of nucleic acids, and what are their functions?
