

# answers to modern biology study guide

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## Section 26-1

### VOCABULARY REVIEW

1. single-celled members of the kingdom Protista that are able to move independently
2. a membrane-bound chamber that contains digestive enzymes inside a cell
3. a form of cell division that produces a number of identical individuals
4. a localized region of pigment that can detect changes in the quantity and quality of light
5. a dormant form of an organism with a hardened external covering

### MULTIPLE CHOICE

1. d      2. b      3. a      4. c      5. b

### SHORT ANSWER

1. Zooplankton are found in aquatic ecosystems; they constitute one of the primary sources of

CHAPTER 12

**Study Guide**

**Section 2: Replication of DNA**

In your textbook, read about semiconservative replication.

Match the description in Column A with the term in Column B.

**Column A**

- \_\_\_\_\_ 1. unwinds in multiple areas as DNA is replicated
- \_\_\_\_\_ 2. parental strands separate and serve as templates for new strands of DNA
- \_\_\_\_\_ 3. the DNA of prokaryotes
- \_\_\_\_\_ 4. keep the strands of DNA separate during replication
- \_\_\_\_\_ 5. elongates as DNA unwinds and is replicated continuously
- \_\_\_\_\_ 6. unwinds the double helix

**Column B**

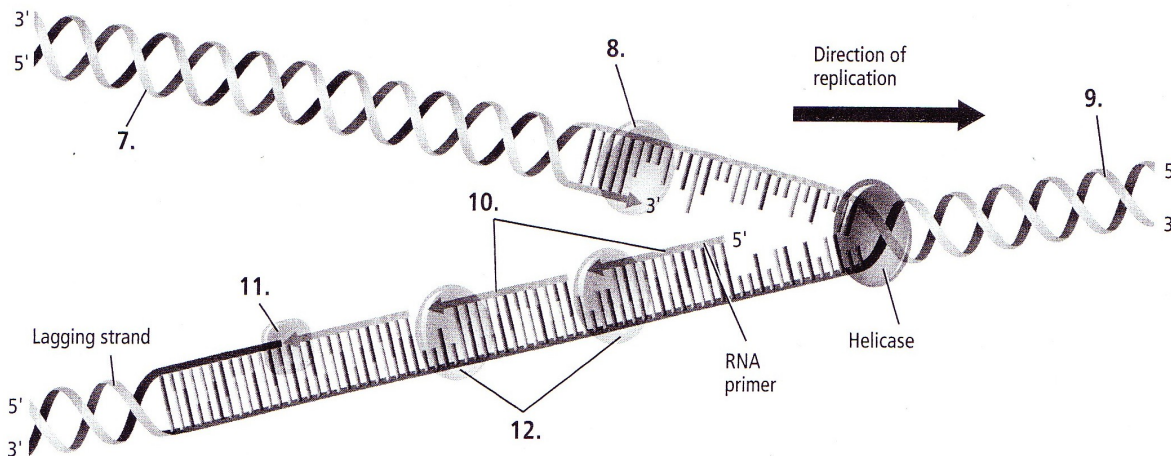
- A. semiconservative replication
- B. DNA helicase
- C. single-stranded binding proteins
- D. leading strand
- E. eukaryotic DNA
- F. circular DNA

In your textbook, read about base pairing.

Label the diagram showing DNA replication. Use these choices:

DNA ligase      DNA polymerase      leading strand      Okazaki fragments      parental DNA

- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_



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4. Most producers need sunlight to make food, and consumers are dependent on producers to provide the base of the food chain in

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