

Biology Chapter 16

1. A difference between a DNA and an RNA molecule? DNA is double-stranded, whereas RNA is singlestranded. (With some exceptions) DNA is a double-stranded molecule and RNA is a single-stranded molecule.
2. Nucleotides are composed of a pentose sugar, a nitrogenous base, and a phosphate group
3. Phosphate groups contain phosphorus.
4. You can tell that this is an image of a DNA nucleotide and not an RNA nucleotide because you see a _____ sugar with two, and not three, oxygen atoms
5. Which of these nitrogenous bases is found in DNA but not in RNA? thymine DNA contains thymine; RNA does not.
6. Which letters are purines? AG
7. Which letters are pyrimidines? CUT
8. Nucleic acids are assembled in the _____ direction. New nucleotides are added to the 3' end of a growing polynucleotide.
9. In a DNA double helix an thymine ... cytosine adenine of one strand always pairs with a(n) _____ of the complementary strand, and a guanine of one strand always pairs with a(n) _____ of the complementary strand. This is referred to as specific base pairing.
10. In an analysis of the nucleotide A + C = G + T composition of DNA, which of the following will be found?
11. Which of the following can be determined directly from X-ray diffraction photographs of crystallized DNA? the diameter of the helix
12. In a DNA double helix an adenine of one strand always pairs with a(n) _____ of the complementary strand, and a guanine of one strand always pairs with a(n) _____ of the complementary strand. thymine ... cytosine. This is referred to as specific base pairing.
13. After DNA replication is completed, _____ each new DNA double helix consists of one old
14. DNA strand and one new DNA strand
15. The first step in the replication of DNA is catalyzed by _____ helicase
16. The action of helicase creates replication forks and replication bubbles. A replication fork is the transition region between paired and unpaired DNA strands.
17. Why is the new DNA strand complementary to the 3' to 5' strands assembled in short segments? DNA polymerase can assemble DNA only in the 5' to 3' direction
18. Since DNA polymerase can assemble DNA only in the 5' to 3' direction, the new strand complementary to the 3' to 5' strand must be assembled in short 5' to 3' segments, which are later joined together by ligase.
19. The synthesis of a new strand begins with the synthesis of a(n) _____ RNA primer complementary to a preexisting DNA strand
20. The synthesis of a DNA strand begins with the formation of an RNA primer.
21. An old DNA strand is used as a template for the assembly of a new DNA strand. An old DNA strand is used as a template for the synthesis of a complementary new strand.
22. What catalyzes DNA synthesis? DNA polymerase
23. This enzyme catalyzes DNA synthesis.
24. Which of the following statements about DNA synthesis is true? Primers are short sequences that allow the initiation of DNA synthesis.

Chapter 16 Biology Test Answers

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Table of Contents Chapter 16 Biology Test Answers

1. Understanding the eBook Chapter 16 Biology Test Answers
 - The Rise of Digital Reading Chapter 16 Biology Test Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 16 Biology Test Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 16 Biology Test Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 16 Biology Test Answers
 - Personalized Recommendations
 - Chapter 16 Biology Test Answers User Reviews and Ratings
 - Chapter 16 Biology Test Answers and Bestseller Lists
5. Accessing Chapter 16 Biology Test Answers Free and Paid eBooks
 - Chapter 16 Biology Test Answers Public Domain eBooks
 - Chapter 16 Biology Test Answers eBook Subscription Services
 - Chapter 16 Biology Test Answers Budget-Friendly Options
6. Navigating Chapter 16 Biology Test Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Chapter 16 Biology Test Answers Compatibility with Devices
 - Chapter 16 Biology Test Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 16 Biology Test Answers
 - Highlighting and Note-Taking Chapter 16 Biology Test Answers
 - Interactive Elements Chapter 16 Biology Test Answers
 8. Staying Engaged with Chapter 16 Biology Test Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 16 Biology Test Answers
 9. Balancing eBooks and Physical Books Chapter 16 Biology Test Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 16 Biology Test Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chapter 16 Biology Test Answers
 - Setting Reading Goals Chapter 16 Biology Test Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chapter 16 Biology Test Answers
 - Fact-Checking eBook Content of Chapter 16 Biology Test Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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