

13 RNA and Protein Synthesis

Chapter Test A

Multiple Choice

Write the letter that best answers the question or completes the statement on the line provided.

- _____ 1. Which of the following are found in both DNA and RNA?
- ribose, phosphate groups, and adenine
 - deoxyribose, phosphate groups, and guanine
 - phosphate groups, guanine, and cytosine
 - phosphate groups, guanine, and thymine



Figure 13-1

- _____ 2. Which nucleotide in Figure 13-1 indicates the nucleic acid above is RNA?
- uracil
 - guanine
 - cytosine
 - adenine
- _____ 3. What is produced during transcription?
- RNA molecules
 - DNA molecules
 - RNA polymerase
 - proteins
- _____ 4. During eukaryotic transcription, the molecule that is formed is
- complementary to both strands of DNA.
 - identical to an entire single strand of DNA.
 - double-stranded and inside the nucleus.
 - complementary to part of one strand of DNA.
- _____ 5. There are 64 codons and 20 amino acids. Which of the following is true?
- Several different codons can specify the same amino acid.
 - Each codon specifies a different amino acid.
 - Some amino acids have no link to a codon.
 - Each amino acid is specified by only one codon.
- _____ 6. A promoter is a
- binding site for DNA polymerase.
 - binding site for RNA polymerase.
 - start signal for replication.
 - stop signal for transcription.
- _____ 7. During translation, the type of amino acid that is added to the growing polypeptide depends on the
- codon on the mRNA and the anticodon on the rRNA.
 - anticodon on the mRNA and the anticodon on the tRNA.
 - anticodon on the rRNA and the codon on the mRNA.
 - codon on the mRNA and the anticodon on the tRNA.

Chapter 1 dna Rna Section Review Answer Key

C Cleary



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Table of Contents Chapter 1dna Rna Section Review Answer Key

1. Understanding the eBook Chapter 1dna Rna Section Review Answer Key
 - The Rise of Digital Reading Chapter 1dna Rna Section Review Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 1dna Rna Section Review Answer Key
 - 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 1dna Rna Section Review Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 1dna Rna Section Review Answer Key
 - Personalized Recommendations
 - Chapter 1dna Rna Section Review Answer Key User Reviews and Ratings
 - Chapter 1dna Rna Section Review Answer Key and Bestseller Lists
5. Accessing Chapter 1dna Rna Section Review Answer Key Free and Paid eBooks

- Chapter 1dna Rna Section Review Answer Key Public Domain eBooks
- Chapter 1dna Rna Section Review Answer Key eBook Subscription Services
- Chapter 1dna Rna Section Review Answer Key Budget-Friendly Options
- 6. Navigating Chapter 1dna Rna Section Review Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 1dna Rna Section Review Answer Key Compatibility with Devices
 - Chapter 1dna Rna Section Review Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 1dna Rna Section Review Answer Key
 - Highlighting and Note-Taking Chapter 1dna Rna Section Review Answer Key
 - Interactive Elements Chapter 1dna Rna Section Review Answer Key
- 8. Staying Engaged with Chapter 1dna Rna Section Review Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 1dna Rna Section Review Answer Key
- 9. Balancing eBooks and Physical Books Chapter 1dna Rna Section Review Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 1dna Rna Section Review Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 1dna Rna Section Review Answer Key
 - Setting Reading Goals Chapter 1dna Rna Section Review Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 1dna Rna Section Review Answer Key
 - Fact-Checking eBook Content of Chapter 1dna Rna Section Review Answer Key
 - 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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