

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?
 a. ribose, phosphate groups, and adenine
 b. deoxyribose, phosphate groups, and guanine
 c. phosphate groups, guanine, and cytosine
 d. phosphate groups, guanine, and thymine



Figure 13-1

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

Chapter 13 Lab From Dna To Protein Synthesis Answers

A Gutmann



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Table of Contents Chapter 13 Lab From Dna To Protein Synthesis Answers

1. Understanding the eBook Chapter 13 Lab From Dna To Protein Synthesis Answers
 - The Rise of Digital Reading Chapter 13 Lab From Dna To Protein Synthesis Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 13 Lab From Dna To Protein Synthesis 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 13 Lab From Dna To Protein Synthesis Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 13 Lab From Dna To Protein Synthesis Answers
 - Personalized Recommendations
 - Chapter 13 Lab From Dna To Protein Synthesis Answers User Reviews and Ratings
 - Chapter 13 Lab From Dna To Protein Synthesis Answers and Bestseller Lists
5. Accessing Chapter 13 Lab From Dna To Protein Synthesis Answers Free and Paid eBooks
 - Chapter 13 Lab From Dna To Protein Synthesis Answers Public Domain eBooks
 - Chapter 13 Lab From Dna To Protein Synthesis Answers eBook Subscription Services
 - Chapter 13 Lab From Dna To Protein Synthesis Answers Budget-Friendly Options
6. Navigating Chapter 13 Lab From Dna To Protein Synthesis Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 13 Lab From Dna To Protein Synthesis Answers Compatibility with Devices
 - Chapter 13 Lab From Dna To Protein Synthesis Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 13 Lab From Dna To Protein Synthesis Answers
 - Highlighting and Note-Taking Chapter 13 Lab From Dna To Protein Synthesis Answers
 - Interactive Elements Chapter 13 Lab From Dna To Protein Synthesis Answers

8. Staying Engaged with Chapter 13 Lab From Dna To Protein Synthesis Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 13 Lab From Dna To Protein Synthesis Answers
9. Balancing eBooks and Physical Books Chapter 13 Lab From Dna To Protein Synthesis Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 13 Lab From Dna To Protein Synthesis Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 13 Lab From Dna To Protein Synthesis Answers
 - Setting Reading Goals Chapter 13 Lab From Dna To Protein Synthesis Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 13 Lab From Dna To Protein Synthesis Answers
 - Fact-Checking eBook Content of Chapter 13 Lab From Dna To Protein Synthesis 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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