

DNA and RNA Tutorial Answers

Short Questions

1. (a) What is meant by the central dogma of molecular genetics?

- DNA is transcribed to RNA which is translated to protein

(b) Define Chargaff's rules

- $A=G$, $C=T$
- $A+G = C+T$
- Purines = Pyrimidines

(b) List the features of the Watson and Crick model of DNA structure.

- Nucleotide: deoxyribose sugar with base attached at 1' C and Phosphate at 5' C
- Polymer of nucleotides joined by phosphodiester bonds
- Double helix
- H bonding between bases
- A pair with T 2 H bonds, G pairs with C 3 base pairs [1] / complementary base pairing
- Diameter 2nm, helical turn of 3.4nm, distance between bases 0.34nm (or 1.0 base pairs /turn)
- Anti-parallel strands

2. Explain the role of each of the following in DNA replication

(a) DNA polymerase I

- Removes RNA nucleotides in primer and replaces them with DNA nucleotides

(b) DNA ligase

- Joins Okazaki fragments together by forming phosphodiester bonds

(c) Helicase

- Unwinds and unzips DNA

(e) Primase

- Synthesises RNA primer to provide a 3' end for DNA

(e) DNA polymerase III

- Main enzyme of replication, constructs new strand by complementary base pairing to each strand $A=T$ and $G=C$

(f) Gyrase

- Prevents supercoiling of DNA, upstream of replication fork

Dna And Rna Lab 32 Answers

Patrick Vollmar



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Table of Contents Dna And Rna Lab 32 Answers

1. Understanding the eBook Dna And Rna Lab 32 Answers
 - The Rise of Digital Reading Dna And Rna Lab 32 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Dna And Rna Lab 32 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 Dna And Rna Lab 32 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dna And Rna Lab 32 Answers
 - Personalized Recommendations
 - Dna And Rna Lab 32 Answers User Reviews and Ratings
 - Dna And Rna Lab 32 Answers and Bestseller Lists
5. Accessing Dna And Rna Lab 32 Answers Free and Paid eBooks
 - Dna And Rna Lab 32 Answers Public Domain eBooks

- Dna And Rna Lab 32 Answers eBook Subscription Services
- Dna And Rna Lab 32 Answers Budget-Friendly Options
- 6. Navigating Dna And Rna Lab 32 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Dna And Rna Lab 32 Answers Compatibility with Devices
 - Dna And Rna Lab 32 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dna And Rna Lab 32 Answers
 - Highlighting and Note-Taking Dna And Rna Lab 32 Answers
 - Interactive Elements Dna And Rna Lab 32 Answers
- 8. Staying Engaged with Dna And Rna Lab 32 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dna And Rna Lab 32 Answers
- 9. Balancing eBooks and Physical Books Dna And Rna Lab 32 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dna And Rna Lab 32 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Dna And Rna Lab 32 Answers
 - Setting Reading Goals Dna And Rna Lab 32 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Dna And Rna Lab 32 Answers
 - Fact-Checking eBook Content of Dna And Rna Lab 32 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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