

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 Questions Answers

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The Top Books of the Year Dna And Rna Questions Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. Dna And Rna Questions Answers : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Dna And Rna Questions Answers

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

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