

Chapters 22, 24, and 25 Guided Reading

Complete the following questions as you read the selected sections from Chapters 22, 24, and 25 of your textbook. It is suggested that you complete as many questions as you can before attending lecture. After lecture, you can go back through and answer any questions that you weren't able to answer. Questions go mostly in order of the chapter.

Section 22.1 - Early Insights Into DNA Replication

1. Define the terms: replication fork and replication origin.
Replication fork - DNA strands separated at regions called forks.
Replication Origin - fixed site where replication begins.
2. What is the directionality of DNA replication in bacteria (circular DNA)? How many replication origins are there?
Bidirectional 1 origins
3. What is the directionality of DNA replication in linear DNA? How many replication origins are there?
Bidirectional, multiple origin points
4. Assuming the same number of nucleotides, which replication would proceed faster: circular DNA or linear DNA?

Circular DNA

Section 22.2 - DNA Polymerases: Enzymes Catalyzing Polynucleotide Chain Elongation

5. What are the two DNA molecules that are needed for the DNA polymerase reaction?
DNA primer and Mg²⁺
6. Describe the 3 general steps of the DNA polymerase reaction (Figure 22.4).
Incoming dNTP is positioned with template nucleotide, a phosphodiester bond is created, dATP fitted to template
7. What is the specific name given to the DNA polymerase enzyme isolated by Kornberg?
DNA pol 1
8. What are the different substrates that DNA polymerase 1 can act upon?
Primed circular single strand, primed linear single strand, single stranded hairpin, gapped duplex, nicked duplex
9. What direction does DNA polymerase 1 synthesize DNA?
5' to 3'
10. What are the 3 enzymatic activities that DNA polymerase 1 contains?
3' exonuclease, 5' exonuclease, and 5' to 3' polymerase

Section 22.3 - Other Proteins at the Replication Fork

11. Summarize why DNA replication is said to be discontinuous.
Because it happens on a lagging strand
12. What is the difference between the leading strand and the lagging strand?
Leading strand is one direction continuously lagging strand is discontinuous.
13. What is the function of DNA ligase?
Links Okazaki fragments
14. What are the primers that are used in DNA replication made from?

Chapter 22 3 Guided Reading

F Rizvi



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Table of Contents Chapter 22 3 Guided Reading

1. Understanding the eBook Chapter 22 3 Guided Reading
 - The Rise of Digital Reading Chapter 22 3 Guided Reading
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 22 3 Guided Reading
 - 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 22 3 Guided Reading
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 22 3 Guided Reading
 - Personalized Recommendations
 - Chapter 22 3 Guided Reading User Reviews and Ratings
 - Chapter 22 3 Guided Reading and Bestseller Lists
5. Accessing Chapter 22 3 Guided Reading Free and Paid eBooks

- Chapter 22 3 Guided Reading Public Domain eBooks
- Chapter 22 3 Guided Reading eBook Subscription Services
- Chapter 22 3 Guided Reading Budget-Friendly Options
- 6. Navigating Chapter 22 3 Guided Reading eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 22 3 Guided Reading Compatibility with Devices
 - Chapter 22 3 Guided Reading Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 22 3 Guided Reading
 - Highlighting and Note-Taking Chapter 22 3 Guided Reading
 - Interactive Elements Chapter 22 3 Guided Reading
- 8. Staying Engaged with Chapter 22 3 Guided Reading
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 22 3 Guided Reading
- 9. Balancing eBooks and Physical Books Chapter 22 3 Guided Reading
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 22 3 Guided Reading
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 22 3 Guided Reading
 - Setting Reading Goals Chapter 22 3 Guided Reading
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 22 3 Guided Reading
 - Fact-Checking eBook Content of Chapter 22 3 Guided Reading
 - 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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