

AP Bio Chapter 16-20 Practice test

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. In his transformation experiments, what did Griffith observe?
- Mutant mice were resistant to bacterial infections.
 - Mixing a heat-killed pathogenic strain of bacteria with a living nonpathogenic strain can convert some of the living cells into the pathogenic form.
 - Mixing a heat-killed nonpathogenic strain of bacteria with a living pathogenic strain makes the pathogenic strain nonpathogenic.
 - Infecting mice with nonpathogenic strains of bacteria makes them resistant to pathogenic strains.
 - Mice infected with a pathogenic strain of bacteria can spread the infection to other mice.
- _____ 2. What does transformation involve in bacteria?
- the creation of a strand of DNA from an RNA molecule
 - the creation of a strand of RNA from a DNA molecule
 - the infection of cells by a phage DNA molecule
 - the type of semiconservative replication shown by DNA
 - assimilation of external DNA into a cell
- _____ 3. The following scientists made significant contributions to our understanding of the structure and function of DNA. Place the scientists' names in the correct chronological order, starting with the first scientist(s) to make a contribution.
- Avery, McCarty, and MacLeod
 - Griffith
 - Hershey and Chase
 - Meselson and Stahl
 - Watson and Crick
- V, IV, II, I, III
 - II, I, III, V, IV
 - I, II, III, V, IV
 - I, II, V, IV, III
 - II, III, IV, V, I
- _____ 4. Cytosine makes up 38% of the nucleotides in a sample of DNA from an organism. Approximately what percentage of the nucleotides in this sample will be thymine?
- 12
 - 24
 - 31
 - 38
 - It cannot be determined from the information provided.
- _____ 5. Chargaff's analysis of the relative base composition of DNA was significant because he was able to show that

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L Darling-Hammond



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Table of Contents Ap Bio Chapter 9 Test

1. Understanding the eBook Ap Bio Chapter 9 Test
 - The Rise of Digital Reading Ap Bio Chapter 9 Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Bio Chapter 9 Test
 - 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 Ap Bio Chapter 9 Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Bio Chapter 9 Test
 - Personalized Recommendations
 - Ap Bio Chapter 9 Test User Reviews and Ratings
 - Ap Bio Chapter 9 Test and Bestseller Lists
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 - Ap Bio Chapter 9 Test Budget-Friendly Options
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 - Interactive Elements Ap Bio Chapter 9 Test
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- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Bio Chapter 9 Test
9. Balancing eBooks and Physical Books Ap Bio Chapter 9 Test
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Bio Chapter 9 Test
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Bio Chapter 9 Test
- Setting Reading Goals Ap Bio Chapter 9 Test
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Bio Chapter 9 Test
- Fact-Checking eBook Content of Ap Bio Chapter 9 Test
 - 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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