

Cell Cycle and Mitosis Study Guide

1. List 2 reasons why cells divide? **Reproduce and repair**
2. Describe the chromosome structure of a bacteria. **Circular**
3. The region of a chromosome where two sister chromatids are held together is called a **centromere**.
4. Describe the structure of a chromosome.
5. In order to fit within a cell, DNA becomes more compact by wrapping around **proteins called histones**.
6. In a bacterium, what type of cell division takes place? What is the result? **Binary fission, results in two identical cells**
7. The phase of the cell cycle that occupies most of an average cell's life is **interphase**.
8. What phase does the cell enter after cytokinesis is completed? **interphase**
9. Which of the following shows the correct sequence of the cell cycle?
 - A. Cytokinesis → mitosis → $G_1 \rightarrow S \rightarrow G_2$
 - B. $S \rightarrow G_1 \rightarrow G_2 \rightarrow$ mitosis → cytokinesis
 - C. **$G_1 \rightarrow S \rightarrow G_2 \rightarrow$ mitosis → cytokinesis**
 - D. Mitosis → $G_1 \rightarrow S \rightarrow G_2 \rightarrow$ cytokinesis
10. Cells that are not dividing remain in which phase? **interphase**
11. The synthesis (S) phase is characterized by what process? **Replication of DNA**
12. The first three steps of the cell cycle are collectively known as **interphase**.
13. Mitosis is the process by which **cells divide**.
14. The phase of mitosis that is characterized by the arrangement of all chromosomes along the equator/middle of the cell is called **metaphase**.

Use the picture below to answer questions 17-19



15. The cell in picture 1 is in what phase of mitosis? **anaphase**.
16. The cell in picture 2 is in what phase of mitosis? **prophase**.
17. The cell in picture 5 is in what phase of mitosis? **telophase**.
18. Using the numbers that correspond with the pictures above put the events of mitosis in order? **2,4,3,1,5**
19. As a result of mitosis, each of the two new cells produced from the parent cell during cytokinesis **are identical to the parent cell**.
20. Cytokinesis in plant cells involves the formation of **cell plate**, while in animal cells a **cleavage furrow** forms.
21. What aids the chromosomes to line up in the middle (equator) of the cell? **Spindle fibers**.
22. What organelle do animal cells have that plant cells do not have when undergoing mitosis? **centrioles**
23. Which cells undergo binary fission as their form of replication? **bacteria**
24. The cells that undergo asexual reproduction produce cells that **are identical to the parent cells**

Section 51 The Cell Cycle Study Guide Answers

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Table of Contents Section 51 The Cell Cycle Study Guide Answers

1. Understanding the eBook Section 51 The Cell Cycle Study Guide Answers
 - The Rise of Digital Reading Section 51 The Cell Cycle Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Section 51 The Cell Cycle Study Guide 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 Section 51 The Cell Cycle Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section 51 The Cell Cycle Study Guide Answers
 - Personalized Recommendations
 - Section 51 The Cell Cycle Study Guide Answers User Reviews and Ratings

- Section 51 The Cell Cycle Study Guide Answers and Bestseller Lists
- 5. Accessing Section 51 The Cell Cycle Study Guide Answers Free and Paid eBooks
 - Section 51 The Cell Cycle Study Guide Answers Public Domain eBooks
 - Section 51 The Cell Cycle Study Guide Answers eBook Subscription Services
 - Section 51 The Cell Cycle Study Guide Answers Budget-Friendly Options
- 6. Navigating Section 51 The Cell Cycle Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Section 51 The Cell Cycle Study Guide Answers Compatibility with Devices
 - Section 51 The Cell Cycle Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section 51 The Cell Cycle Study Guide Answers
 - Highlighting and Note-Taking Section 51 The Cell Cycle Study Guide Answers
 - Interactive Elements Section 51 The Cell Cycle Study Guide Answers
- 8. Staying Engaged with Section 51 The Cell Cycle Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section 51 The Cell Cycle Study Guide Answers
- 9. Balancing eBooks and Physical Books Section 51 The Cell Cycle Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section 51 The Cell Cycle Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Section 51 The Cell Cycle Study Guide Answers
 - Setting Reading Goals Section 51 The Cell Cycle Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Section 51 The Cell Cycle Study Guide Answers
 - Fact-Checking eBook Content of Section 51 The Cell Cycle Study Guide 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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