

Mitosis & Meiosis – Test Study Guide Key

Cell Cycle

1. From where do new cells arise?
All cells come from other cells.
2. Why does the body constantly make new cells?
**Cells get too large for efficient diffusion of substances across the cell's interior.
For unicellular reproduction - ex. fission
The larger the cell becomes, the more demands the cell places on its DNA.
For the growth of multi-cellular organisms. (ex. Fertilized egg divides and becomes a multi-cellular organism)**
4. Why must each new cell get a complete copy of the original cell's DNA?
Cells need a complete set of DNA to function properly – it is the instruction manual for the cell.
5. Copying DNA is known as **replication**.
6. The original cell that divides is called the **mother** cell, while the two, new identical cells are called **daughter** cells.

Chromosomes

7. How many chromosomes are in a human body cell? **46**
 8. What makes up each chromosome?
DNA tightly coiled into two sister chromatids connected by the centromere.
 9. 10. Uncoiled chromosomes are called **chromatin**.
 12. What are duplicated (doubled) chromosomes called? **Homologous pairs**
 13. What holds chromatids together? **Centromere**
 14. Sketch & label all parts of sister chromatids.
- 
16. Where are autosomes found on a pairs? **Pairs 1- 22**
 17. Where are sex chromosomes found on a pair? **The 23rd pair**
 18. What is the genotype for males? **XY** For females? **XX**
 19. The presence of which chromosome determines the sex of the child? **Y**

Cell Reproduction

20. What is asexual reproduction? **Making new cells by making exact copies of the mother cell. Only one parent.**
22. What is sexual reproduction and give an example?
The formation of offspring by the combination of haploid cells from the mother and father. Requires two parents. Ex. Pollination of a flower.
23. Which process produces identical new cells --- mitosis, meiosis, or both?
Mitosis

Cell Cycle

27. Name the 5 phases of the cell cycle.
Interphase, Prophase, Metaphase, Anaphase, Telophase
28. What is the longest phase of the cell cycle? **Interphase** the shortest phase? **G2 of interphase**
29. Which phase has 3 stages & name them?
Interphase -- First Growth (G1), Synthesis (S), Second Growth (G2)
30. Which phase has 4 stages & name them?
Mitotic Phase – Prophase, Metaphase, Anaphase, Telophase
33. How do the new copies of DNA compare to the original DNA? **Exact copies**
36. Can the nucleus and nucleolus be seen during interphase? **Yes**

Mitosis

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Table of Contents Biology Mitosis Test Answer Guide

1. Understanding the eBook Biology Mitosis Test Answer Guide
 - The Rise of Digital Reading Biology Mitosis Test Answer Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Mitosis Test Answer Guide
 - 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 Biology Mitosis Test Answer Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Mitosis Test Answer Guide
 - Personalized Recommendations

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

- 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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