

Quiz: Mitosis vs. Meiosis

Part 1: Matching

Directions: Match the term in Column A with the correct description in Column B. Write the letter on the line provided.

Column A

- _____ 1. Mitosis
- _____ 2. Meiosis
- _____ 3. Gametes
- _____ 4. Diploid Cell
- _____ 5. Haploid Cell
- _____ 6. Crossing Over
- _____ 7. Body Cells
- _____ 8. Four Daughter Cells
- _____ 9. Two Daughter Cells
- _____ 10. Genetic Variation

Column B

- A. Cells with one set of chromosomes
 - B. Exchange of genetic material between homologous chromosomes
 - C. Produces sex cells
 - D. Cells with 2 sets of chromosomes
 - E. Produced through meiosis
 - F. Produces 4 daughter cells
 - G. Increases differences among offspring
 - H. Produces 2 identical daughter cells
 - I. Ordinary cells used for growth and repair
 - J. Cell division used for growth and repair
-

Part 2: Multiple Choice

11. Which process produces genetically identical daughter cells?

- A. Meiosis
- B. Fertilization
- C. Mitosis
- D. Mutation

12. How many daughter cells result from meiosis?

- A. 2
- B. 4
- C. 6
- D. 8

13. What is the main purpose of meiosis?

- A. Growth and repair
- B. Replace damaged cells
- C. Produce gametes
- D. Increase cell size

14. Human body cells contain how many chromosomes?

- A. 23
- B. 46
- C. 92
- D. 12

- 15. Human gametes contain how many chromosomes?**
- A. 46
 - B. 92
 - C. 23
 - D. 12
- 16. Which process includes crossing over?**
- A. Mitosis
 - B. Meiosis
 - C. Cytokinesis
 - D. Interphase
- 17. Which type of cell division creates genetic variation?**
- A. Mitosis
 - B. Binary Fission
 - C. Meiosis
 - D. Cytokinesis
- 18. Mitosis produces cells that are _____ to the parent cell.**
- A. Different
 - B. Smaller
 - C. Identical
 - D. Haploid
- 19. Which of the following is NOT a characteristic of meiosis?**
- A. Produces gametes
 - B. Creates genetic variation
 - C. Produces four cells
 - D. Produces identical daughter cells
- 20. Which process is responsible for growth, development, and tissue repair?**
- A. Meiosis
 - B. Mitosis
 - C. Fertilization
 - D. Mutation