


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

Mitosis And Meiosis Quiz Study Guide

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