

Study Guide for the Test on Cells

What are the three parts of the cell theory?

1. _____
2. _____
3. _____

What is an example of a cell with no nucleus? _____

The movement of molecules from areas of high concentration to low concentration is called? _____ And if those molecules are water it is called: _____.

How would a cell get rid of a molecule if the molecule won't diffuse across the cell's membrane? _____

Mitosis results in how many daughter cells? _____ Are they identical? _____

If a cell went through mitosis 4 times how many cells would be produced?

What is the major event of each step of mitosis? Why is each important?

Prophase: _____

Metaphase: _____

Anaphase: _____

Telophase: _____

Is Interphase a part of mitosis? _____

What happens during cytokinesis? _____

How many chromosomes does a normal somatic cell have? _____

Explain how chromosome, chromatin, and chromatid are related:

Vocabulary words to know and understand:

1. Nucleus
2. Mitochondria
3. Chloroplast
4. Cell Wall
5. Ribosomes
6. Endoplasmic Reticulum
7. Vacuole
8. Lysosome
9. Cell Membrane
10. Cytoplasm
11. Diffusion
12. Osmosis
13. Active Transport
14. Mitosis
15. Chromosome
16. Chromatin
17. Chromatid