

Unit 4 Exam Study Guide

1. Put the cell cycle pictures below in order in which they happen:



2. List the phases of mitosis in order:

PMAT

3. What is the purpose of cell division by mitosis?

To make 2 cells each with a complete # of chromosomes from one cycle to the next

4. What is the end result of cell division by mitosis?

2 identical daughter cells with the same # of chromosomes

5. What kinds of cells does mitosis form?

Diploid (2n) somatic or body cells

6. When is the DNA replicated in the cell cycle? Why does this happen?

The S-phase of interphase; so 2 new cells can be made

7. If a cell dog cell has 72 chromosomes, how many daughter cells will be created at the end of mitosis? How many chromosomes would each daughter cell have?

2 daughter cells with 72 chromosomes each "my TWIN sis"

8. What kinds of cells does meiosis create?

Gametes or sex cells

9. How many cells are created in meiosis? Are they haploid or diploid? Are they the same or genetically different from the parent cell?

4 genetically different haploid cells

10. What is crossing over? When does it occur?

Homologous chromosomes exchange pieces of information in Metaphase I

11. Why does meiosis increase genetic variation?

Because of crossing over & independent assortment

12. What is a zygote? Is it diploid or haploid?

A diploid cell formed by the fertilization between 2 gametes (sperm & egg); contains the chromosomes from both sex cells.

13. Describe what happens in the following phases:

- Prophase II **chromosomes pair up & nuclear membrane disappears**
- Metaphase II **chromosomes line up in single file line**
- Anaphase II **sister chromatids are pulled apart to opposite ends**
- Telophase **4 new cells are formed**

Biology Unit 4 Study Guide Answer Key

Sue E. Huether, Kathryn L. McCance



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