

# Cellular Reproduction Study Guide

5 pages + 5-page Answer KEY

## CELL REPRODUCTION STUDY GUIDE

For the following 2 questions, refer to the diagram below.

- 1.
- 2.

2 Draw, label, and define a microvillus. Label the following components:

3 List the steps in the cell cycle in order using the following terms: Mitosis, G1, G2, S, Cytokinesis, Anaphase, Telophase.

For the following 2 questions, refer to the diagram below.

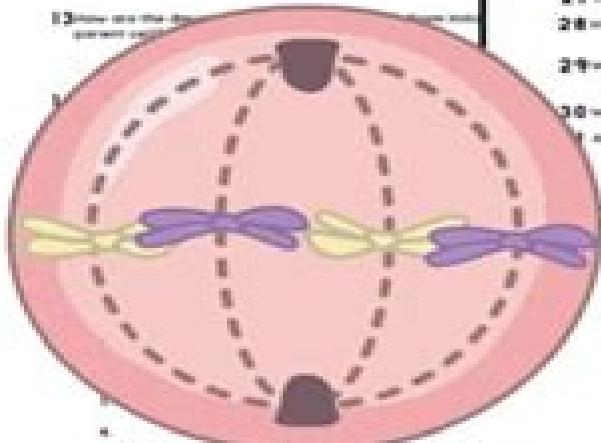


4 Put the pictures above in order and name the phases.

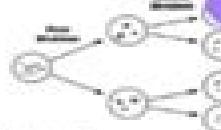
5 The diagram above is a picture of the phase of \_\_\_\_\_.

6 Describe how the daughter cells (the 2 new cells) from a parent cell.

7 Draw one of the stages of cell division.



For the following questions, refer to the diagram below. All the diagrams are human cells.



8 The diagram above is a picture of the phase of \_\_\_\_\_.

9 At the end of the first division, how many chromosomes are in each cell?

10 At the end of the second division, how many chromosomes are in each cell?

11 What are some advantages to sexual reproduction? List 3.

12 What is the main advantage of asexual reproduction?

13 When an egg and a sperm combine, the process is called \_\_\_\_\_.

14 What are chromosome combinations does a human male have?

15 What are chromosome combinations does a human female have?

16 In humans, who determines the sex of the baby, the mother or the father?

17 What type of chromosomes are the X and Y chromosomes?

18 What are all other chromosomes called?

19 A female cell has \_\_\_\_\_ pairs of chromosomes.

## Biology

20 How many cells are formed at the end of mitosis? \_\_\_\_\_

21 Are they identical or different? \_\_\_\_\_

22 How many cells are formed at the end of meiosis? \_\_\_\_\_

23 Are they identical or different? \_\_\_\_\_

24 What happens during crossing over?

25 What does a protistocyte do to prepare for cell division?

26 What does a eukaryote do to prepare for cell division?

27 List 4 things that occur during prokinesis.

- 1.
- 2.
- 3.
- 4.

28 Compare and contrast the differences and similarities between benign and malignant tumors.

29 What is the difference between a somatic cell and a germ cell?

30 When female cells are creating gametes, what causes the Y chromosome to be smaller than the X?

**ANSWER KEY INCLUDED**

# Cell Growth And Reproduction Study Guide Answer

**Nancy A. Sickles Corbett**

## **Cell Growth And Reproduction Study Guide Answer:**

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