

Cellular Reproduction Study Guide

5 pages + 5-page Answer KEY

Biology

CELL REPRODUCTION STUDY GUIDE

1. What are the 3 reasons cells divide?

- 1.
- 2.
- 3.

2. Draw, label, and define a chromosome. Label the sister chromatids.

3. List the steps in the cell cycle in order using the following: Prophase, G1, Cytoplast, Anaphase, S, G2, Metaphase.

For the following 3 questions, refer to the diagram below.

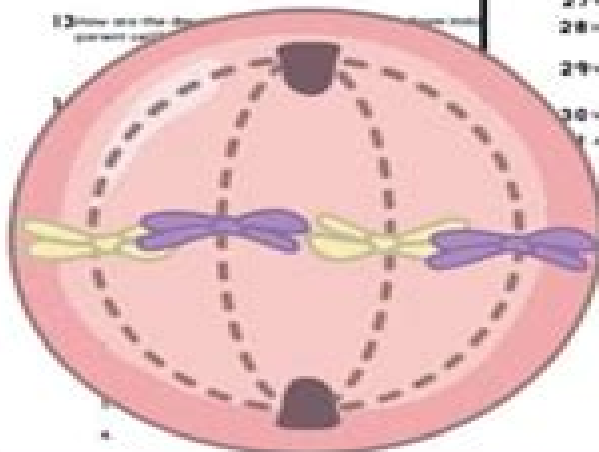


10. Put the pictures above in order and name the phases.

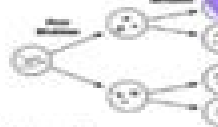
11. The diagram above is a picture of the phases of _____.

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

13. How are the daughter cells different from the parent cell?



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



20. The diagram above is a picture of the phases of _____.

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

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

23. What are some advantages to sexual reproduction? (Disadvantages)

24. What is the main advantage of sexual reproduction?

25. When an egg and a sperm combine, the process is called _____.

26. What sex chromosome combination does a human male have?

27. What sex chromosome combination does a human female have?

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

29. What type of chromosomes are the X and Y chromosomes?

30. What are all other chromosomes called? _____.

31. A human cell has _____ pairs of chromosomes.

36. How many cells are formed at the end of mitosis? _____.
37. Are they identical or different? _____.
38. How many cells are formed at the end of meiosis? _____.
39. Are they identical or different? _____.
40. What happens during crossing-over? _____.

32. What does a prokaryote do to prepare for cell division?

33. What does a eukaryote do to prepare for cell division?

34. List 4 things that occur during prophase.

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

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

36. When female cells are creating gametes, what causes the 1 polar body to be smaller than the egg?

37. _____.

38. Compare the roles of female prokaryotic and eukaryotic cells.

ANSWER KEY INCLUDED

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Y Pai



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