

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, Cytopinesis, Anaphase, S, G₂, Metaphase.

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

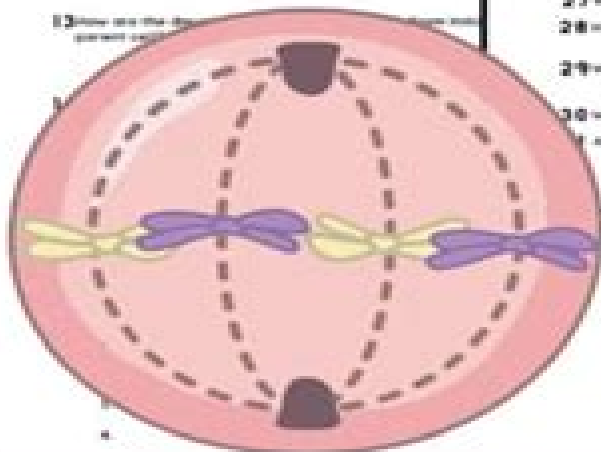


10. Put the pictures above in order and name the phases.

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. Assume the cells 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 daughter cell?

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

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

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

54. List 4 things that occur during prokaryotic cell division.
- 1.
- 2.
- 3.
- 4.

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

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

57. What is the difference between a prokaryotic cell and a eukaryotic cell?

58. Compare the structure of a prokaryotic cell and a eukaryotic cell.

ANSWER KEY INCLUDED

Biology 12 Reproduction Study Guide Answer Key

Arturo Cuomo



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In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Biology 12 Reproduction Study Guide Answer Key**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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web using rankine method the curve is set out by the use of deflection angles turned at the point of curvature from the tangent line to the points along the curve this method uses station measurements while two theodolite method does not

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web understand various methods of setting out curves in the field and problems in setting out these curves and know about the need of super elevation and transition curves be uniform and may consist of different gradients for instance rising gradient may be followed by falling gradient and vice versa

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pcc curve at pc is designated as 1 r 1 l 1 t 1 etc and curve at pt is designated as 2 r 2 l 2 t 2 etc

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web the following are the methods of setting out simple circular curves by linear methods and by the use of chain and tape 1
by ordinates from the long chord 2 by successive bisection of arcs 3 by offsets from the tangents 4 by offsets from chords
produced method 1 by ordinates from the long chord fig 11 8

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web 10 2 setting out curves this is the process of establishing the centre line of the curve on the ground by means of pegs at
10 m to 30 m intervals in order to do this the tangent and intersection points must first be fixed in the ground in their correct
positions consider figure 10 3

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numerical problems on offsets from long chord chord produced method setting out curves by rankine s deflection angle
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web the point where the two curves connect namely the point at which the pt of the first curve equals the pc of the second
curve is referred to as the point of compound curvature pcc since their tangent lengths vary compound curves fit the
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