Name _____ Class_____Date_____

Assessment

Quiz

Section: Cell Reproduction

In the space provided, write the letter of the description that best matches each term.

_____ 1. chromosome
_____ 2. chromatid
_____ 3. chromatin
_____ 4. centromere
_____ 5. gene
_____ 6. histone
_____ 7. nucleosome

a. a type of protein found in the chromosomes of eukaryotic cells
b. a thick strand made up of condensed DNA
c. a substance made up of DNA and protein
d. the structure in which a cell's DNA is packaged
e. a structural unit made of DNA wound around a core of histone proteins
f. a segment of DNA that codes for RNA and protein
g. the region where sister chromatids are bound together

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

_____ 8. Why do multicellular organisms produce new cells?
a. to advance the growth of the organism
b. to replace old cells or cells that aren't working well
c. to heal a tear or wound
d. All of the above

_____ 9. In prokaryotic cells, DNA appears in the form of a
a. loop.
b. nucleosome.
c. condensed strand.
d. looped domain.

_____ 10. In eukaryotic cells, DNA is wrapped around
a. RNA.
b. proteins.
c. chromatin.
d. All of the above

_____ 11. What do all cells do to prepare for cell division?
a. increase their surface area-to-volume ratio
b. decrease the number of proteins they need
c. make an extra copy of their complete DNA
d. All of the above

_____ 12. What pinches a dividing prokaryotic cell into two cells?
a. the cell's DNA
b. the cell's chromosomes
c. the cell wall
d. Both (a) and (c)

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