Name _____ Class_____Date_____

Assessment

Quiz

Section: Meiosis

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

_____ 1. Crossing-over occurs during
a. prophase II.
b. fertilization.
c. prophase I.
d. metaphase II.

_____ 2. Cytoplasm divides unequally in meiosis during production of
a. spores.
b. sperm cells.
c. cytokinesis.
d. egg cells.

_____ 3. Which of the following does *not* provide new genetic combinations?
a. random fertilization
b. cytokinesis
c. independent assortment
d. crossing-over

_____ 4. DNA replication occurs
a. after telophase I.
b. prior to prophase I.
c. in both meiosis I and meiosis II.
d. when the chromosomes align at the cell's equator.

_____ 5. Spermatogenesis results in
a. two haploid cells.
b. three polar bodies.
c. one haploid sperm cell and three polar bodies.
d. four haploid sperm cells.

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

_____ 6. meiosis
_____ 7. prophase I
_____ 8. crossing-over
_____ 9. telophase II
_____ 10. oogenesis

a. chromosomes become visible
b. results in one egg cell and three polar bodies
c. results in four haploid cells
d. halves the number of chromosomes
e. results in exchange of chromatid portions between homologous chromosomes

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