

Assessment

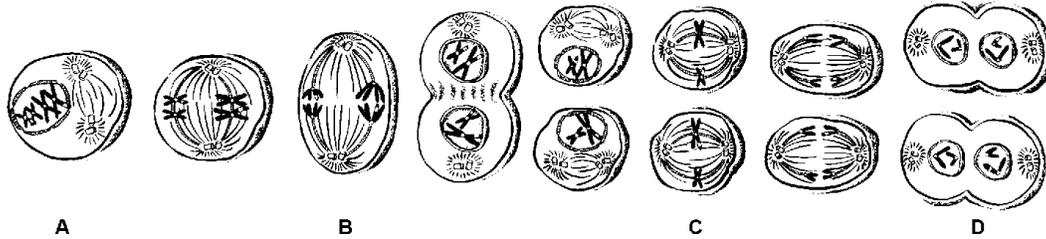
Chapter Test

Meiosis and Sexual Reproduction

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

- _____ 1. Meiosis occurs
- in all sexually reproducing organisms.
 - in all asexually reproducing organisms.
 - in all reproducing organisms.
 - during gametogenesis and cytokinesis.
- _____ 2. Which of the following does not lead to genetic variation?
- binary fission
 - random fertilization
 - independent assortment
 - crossing-over

Questions 3–6 refer to the figure below, which shows the stages of meiosis.



- _____ 3. Pairs of homologous chromosomes line up at the cell's equator in stage
- A.
 - B.
 - C.
 - D.
- _____ 4. Homologous chromosomes move to opposite poles of the cell during stage
- A.
 - B.
 - C.
 - D.
- _____ 5. In alternation of generations, which of the following is *not* haploid?
- spores
 - gametophytes
 - sporophytes
 - eggs and sperm
- _____ 6. During meiosis, two successive divisions
- result in the formation of two identical cells.
 - cause the formation of a zygote.
 - are responsible for the formation of four haploid cells.
 - must occur before mitosis can form gametes.

