

Biology

Chapter 9: Frontiers of Biotechnology

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. Bacterial enzymes that cut the DNA of viruses are called
 - a. bacterial helicases.
 - b. restriction enzymes.
 - c. DNA polymerases.
 - d. mapping enzymes.

- _____ 2. Which technique is used to separate DNA fragments by their size?
 - a. nucleotide sequencing
 - b. genetic engineering
 - c. gel electrophoresis
 - d. gene cloning

- _____ 3. Suppose a segment of DNA contains five restriction sites for a particular restriction enzyme. How many fragments of DNA will remain after the enzyme is used to cut the DNA?
 - a. 4
 - b. 5
 - c. 6
 - d. 10

- _____ 4. Some restriction enzymes leave behind “sticky ends,” or tails of
 - a. repeating bases.
 - b. exposed bases.
 - c. paired bases.
 - d. restricted bases.

- _____ 5. What do the bands on a restriction map show?
 - a. the genes being expressed
 - b. DNA sequences
 - c. locations of damaged genes
 - d. sizes of DNA fragments

- _____ 6. Which of the following statements about polymerase chain reaction (PCR) is true?
 - a. produces RNA segments.
 - b. requires primers and nucleotides.
 - c. builds new polymerases.
 - d. occurs inside bacteria.

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