

## ***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.

# Genetics Worksheet Bi Chapter 9 Answers

**Disha Experts**



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