

# Genetic Engineering MCQ

1. Which two of the following BEST describes recombinant DNA technology?

- I. Altering genes of a living organism
- II. Inserting foreign genes from one species to another
- III. Selecting advantageous characteristics in breeding

A. I and II  
B. II and III  
C. I and III  
D. I, II and III

2. The main function of restriction enzymes is to

- A. to make a DNA copy of mRNA
- B. carry DNA into cells and ensure replication
- C. join DNA fragments together
- D. cut DNA at specific points making small fragments

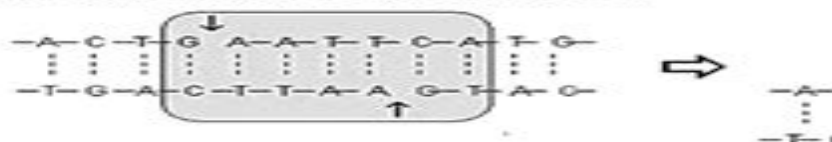
3. The main function of cDNA is

- A. to make a DNA copy of mRNA
- B. to act as a vector
- C. to identify transformed cells
- D. to deliver a gene to all living cells

4. The enzyme reverse transcriptase is made naturally in retroviruses such as HIV. What is the function of reverse transcriptase in genetic engineering?

- A. multiply small quantities of DNA
- B. copy mRNA from DNA
- C. isolate mRNA and purify it
- D. make artificial complementary DNA

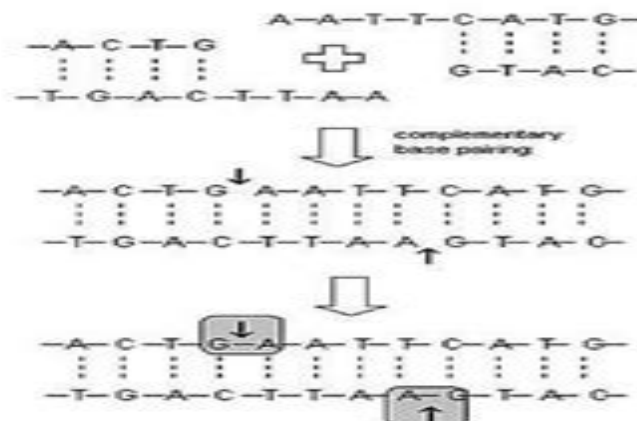
5. The figure shows part of a DNA molecule undergoing the genetic engineering process.



Which enzyme could have been responsible for the action observed?

- A. Reverse transcriptase
- B. DNA ligase
- C. Restriction enzymes
- D. DNA polymerase

6. The figure below shows part of a DNA molecule undergoing the genetic engineering process.



Which enzyme could have been responsible for the action observed?

- A. Reverse transcriptase
- B. DNA ligase
- C. Restriction enzymes
- D. DNA polymerase

7. Restriction sites are described as 'palindromic'. This is because

- A. sticky ends arise which form complementary base sequence.
- B. nucleotides read same in both 5' to 3' and 3' to 5' direction.
- C. blunt ends arise by DNA which cut straight across the DNA.
- D. it produces large quantities of DNA when inserted into bacteria.

8. Identify the INCORRECT statement

- A. rDNA is DNA formed by combining DNA from two different sources.
- B. cDNA is DNA made from mRNA
- C. once the gene is inserted into the plasmid, it is rDNA
- D. rDNA can be isolated from mRNA

9. Germ line gene therapy is illegal in all countries. Which of the following concerns BEST accounts for this?

- A. No benefits which outweigh risks
- B. Less expensive methods are available
- C. Moral issues concern wider society
- D. Effects on future generation unknown

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**George A. Wistreich**



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## **Table of Contents Answers For Study Guide For Genetic Engineering**

1. Understanding the eBook Answers For Study Guide For Genetic Engineering
  - The Rise of Digital Reading Answers For Study Guide For Genetic Engineering
  - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Study Guide For Genetic Engineering
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Answers For Study Guide For Genetic Engineering
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Study Guide For Genetic Engineering
  - Personalized Recommendations
  - Answers For Study Guide For Genetic Engineering User Reviews and Ratings
  - Answers For Study Guide For Genetic Engineering and Bestseller Lists

5. Accessing Answers For Study Guide For Genetic Engineering Free and Paid eBooks
  - Answers For Study Guide For Genetic Engineering Public Domain eBooks
  - Answers For Study Guide For Genetic Engineering eBook Subscription Services
  - Answers For Study Guide For Genetic Engineering Budget-Friendly Options
6. Navigating Answers For Study Guide For Genetic Engineering eBook Formats
  - ePub, PDF, MOBI, and More
  - Answers For Study Guide For Genetic Engineering Compatibility with Devices
  - Answers For Study Guide For Genetic Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answers For Study Guide For Genetic Engineering
  - Highlighting and Note-Taking Answers For Study Guide For Genetic Engineering
  - Interactive Elements Answers For Study Guide For Genetic Engineering
8. Staying Engaged with Answers For Study Guide For Genetic Engineering
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answers For Study Guide For Genetic Engineering
9. Balancing eBooks and Physical Books Answers For Study Guide For Genetic Engineering
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Answers For Study Guide For Genetic Engineering
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Answers For Study Guide For Genetic Engineering
  - Setting Reading Goals Answers For Study Guide For Genetic Engineering
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Study Guide For Genetic Engineering
  - Fact-Checking eBook Content of Answers For Study Guide For Genetic Engineering
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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