

### Genetic Engineering MCQ

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

- Altering genes of a living organism
- Inserting foreign genes from one species to another
- 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

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

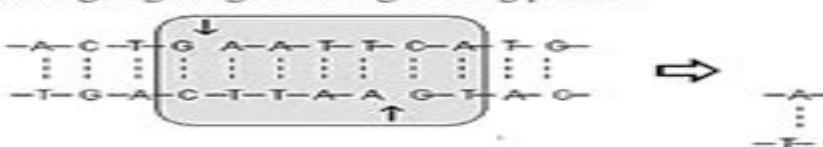
3. The main function of cDNA is

- A. to make a DNA copy of mRNA**
- to act as a vector
- to identify transformed cells
- 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?

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

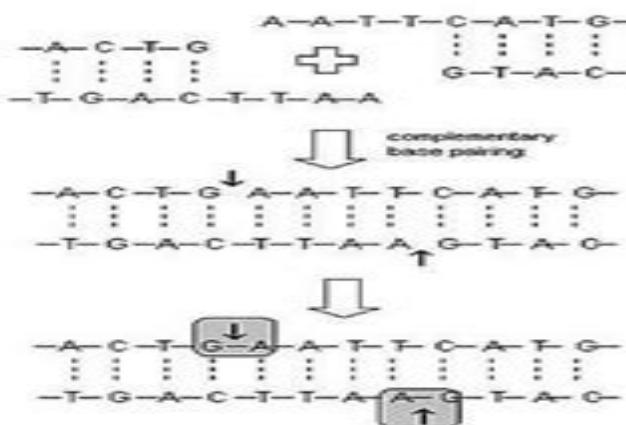
5. The figure shows part of a DNA molecule undergoing the genetic engineering process.



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?

- Reverse transcriptase
- B. DNA ligase**
- Restriction enzymes
- DNA polymerase

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

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

8. Identify the INCORRECT statement

- rDNA is DNA formed by combining DNA from two different sources
- cDNA is DNA made from mRNA
- 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?

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

# Answers For Study Guide For Genetic Engineering

**James Trefil, Robert M. Hazen**

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