

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**

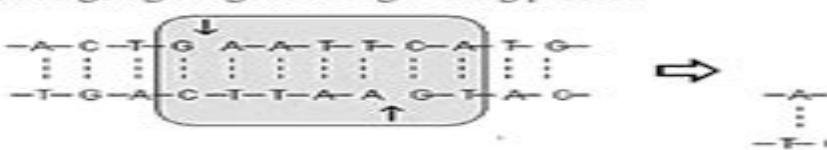
3. The main function of cDNA is

- 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**

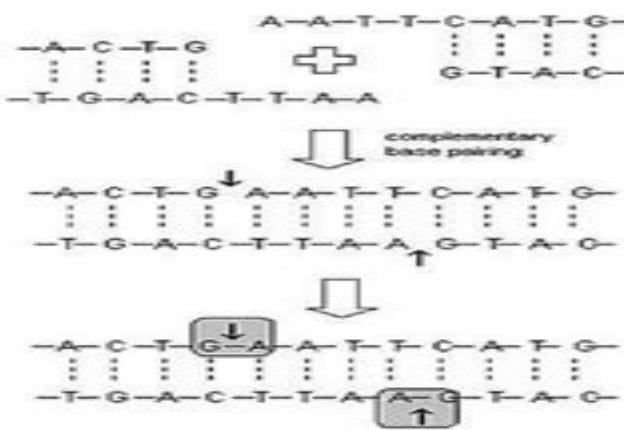
5. The figure shows part of a DNA molecule undergoing the genetic engineering process.



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

George A. Wistreich

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