

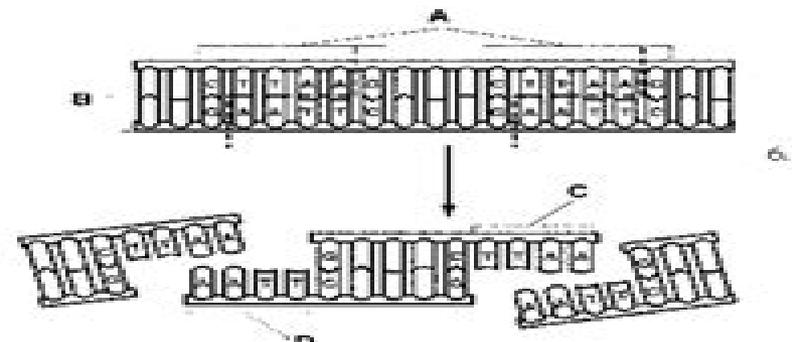
Name: \_\_\_\_\_

## Genetic Engineering – Practice what you know

1. In which 2 ways can we "change" the genome of an organism? ..... *We can delete or add genes to the genome of an organism.* .....
2. What is a **transgenic** organism? ..... *An organism with a gene from a different species.* .....
3. What is a **clone**? ..... *Genetically identical organism.* .....

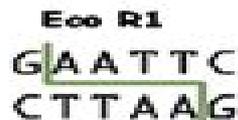
### Tools : Cutting the DNA

4. What is a **restriction enzyme**? ..... *An enzyme that cuts DNA at specific locations.* .....
5. What does this figure to the right show?
- a. gel electrophoresis
  - b. DNA sequencing
  - c. **a restriction enzyme producing a DNA fragment**
  - d. polymerase chain reaction



- Between which nucleotides is the DNA cut?
- a. adenine and thymine
  - b. cytosine and guanine
  - c. thymine and cytosine
  - d. **adenine and guanine**

---- This is the cutting pattern of 2 restriction enzymes: ----



6. Cut the following piece of DNA using the **restriction enzyme Eco R1**.

**GCCCGGGGCATG|AATTCGCGTATCGTG|AATTCTGGGCCCATCAG|AATTCAA  
CGGGCCCCGTA CTTAA|GCGCATAGCACTTAA|GACCCGGGTAGTCTTAA|GTT**

7. How many fragments of DNA do you get? ..... **4** .....

# 13 4 Application Of Genetic Engineering Answer Key

**Thirumalaisamy P.  
Velavancorresponding**



**13 4 Application Of Genetic Engineering Answer Key:**

## **13 4 Application Of Genetic Engineering Answer Key** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**13 4 Application Of Genetic Engineering Answer Key**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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