

BIO H FINALS STUDY GUIDE

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[BIOTECH AND PROTEIN SYNTHESIS PRACTICE TEST](#)

BIOTECHNOLOGY

1. Explain how a gene can be inserted into a plasmid

RESTRICTION ENZYMES

- they cut DNA in a very specific fashion.
- each enzyme has a unique nucleotide sequence at which it cuts a DNA molecule.
- the sequence is a Palindrome sequence.
- the enzymes are found naturally in bacteria (3000 identified - 600 commercially)
- cuts through covalent bonds but not through hydrogen bonds

CUTTING SITES

- depending on the enzyme, the cut creates either a staggered (sticky ends) cut, or a blunt cut. The sticky end joins with another sticky end, etc....

Sticky end/cut:

G|AATTC
CTGAAC|

Blunt end/cut:

CCC|GGG
GGG|CCC

PLASMIDS

- small circular pieces of DNA that replicate independently from original DNA
- found in bacteria

DNA LIGASE

- paste the sticky end fragments of DNA together into the plasmids to its complementary bases

RECOMBINANT DNA

- finally forms the new plasmid (DNA) with the complementary sticky ends attached



2. A Description of ways recombinant DNA technology can be applied

RECOMBINANT DNA TECHNOLOGY

1. Farming

Using this tech, a gene that provides resistance to specific weed-killing chemicals has been developed. When farmers use chemicals, they kill weeds without killing the crops.

2. Diabetes

Scientists can insert the human gene that directs the production of human insulin into the E. Coli which can produce large quantities of human insulin. Insulin treats diabetes.

3. Vaccines

A virus vaccine is composed of viral proteins manufactured by yeast cells that have been recombined with viral genes.

4. DNA Fingerprinting (Gel Electrophoresis)

Bio Finals Study Guide

LP Steffe



Bio Finals Study Guide:

Bio Finals Study Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Bio Finals Study Guide**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect 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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