

## BIOLOGY 10TH-Short / Detailed Question Answers

 **BIOTECHNOLOGY**

CHAPTER# 08

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**Q.1:** Who used the term "Biotechnology" for the first time?

**Ans:** The term "Biotechnology" was used before the twentieth century for traditional activities such as making dairy products like cheese and curd, as well as bread, wine, beer, etc. In 1919, a Hungarian agriculture engineer called Karl Ereky coined the word Biotechnology.

**Q.2:** Define biotechnology.**Ans: Biotechnology:**

There are several definitions for biotechnology. One simple definition is that it is the commercialization of cell and molecular biology.

According to the National Science Academy of United States, biotechnology is the "controlled use of biological agents like cells or cellular components for beneficial use". It covers both classical as well as modern biotechnology. Generally, biotechnology can be defined as "the use of living organisms, cells or cellular components for the production of compounds or precise genetic improvement of living things for the benefit of man"

**Q.3:** What is genetic engineering?**Ans: Genetic Engineering:**

Genetic engineering has been defined as the artificial manipulation, modification, and recombination of DNA or other nucleic acid molecules in order to modify an organism or population of organisms. It refers to any process in which an organism's genome is intentionally altered.

Genetic engineering does not encompass traditional breeding techniques because it requires the manipulation of an organism's genes through cloning or transformation via the addition of foreign DNA.

**For example,** a DNA fragment may be isolated from one organism, spliced into other DNA fragments, and put into a bacterium or another organism. This process is called cloning because many identical copies can be made of the original DNA fragment. In the 1970s, scientists were able to alter the DNA of the organisms and in 1978 the first genetically engineered drug, human insulin was produced by bacteria.

In another example of genetic engineering, a stretch of DNA, often an entire gene, may be isolated and its nucleotide sequence determined, or its nucleotide sequence may be altered by in vitro mutagenic methods.

# Biotechnology Biology Junction Answers

**RM Cervero**



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