Name _____

Unlocking Nature's Toolbox: Exploring Genetic Engineering

Multiple Choice Questions

1. What is genetic engineering?

a) The process of making an exact copy of a DNA molecule.

b) The process of converting DNA into RNA.

c) The process of modifying the genetic makeup of organisms.

d) The process of breaking down DNA molecules.

2. Which technique involves combining DNA from different sources to create a new DNA molecule?

a) Recombinant DNA technology

b) Gene editing

c) PCR (Polymerase Chain Reaction)

d) Gel electrophoresis

3. What is one application of genetic engineering in agriculture?

a) Producing therapeutic proteins

b) Treating genetic disorders

c) Developing crops with improved traits

d) Editing genes with CRISPR-Cas9

4. Why is understanding genetic engineering important?

a) It allows scientists to address global challenges in agriculture, medicine, and the environment.

b) It helps scientists study the behavior of birds.

c) It helps scientists understand the weather patterns.

d) It helps scientists develop new types of cars.

5. What ethical consideration arises from the use of genetic engineering?

a) The potential risks and benefits of GMOs

b) The distribution of benefits

c) The protection of biodiversity

d) All of the above

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