

Cloning Quiz Answer Key PDF

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Which factor influences the legal regulations of cloning in different countries?

- A. Economic status
- B. Societal values ✓**
- C. Climate
- D. Population size

What was the name of the first mammal cloned from an adult somatic cell?

- A. Polly
- B. Molly
- C. Dolly ✓**
- D. Holly

What is cloning?

- A. The process of creating genetically identical copies of an organism or cell. ✓**
- B. The process of breeding animals.
- C. The process of mixing different species.
- D. The process of genetic mutation.

Which type of cloning is used to produce whole animals?

- A. Gene Cloning
- B. Reproductive Cloning ✓**
- C. Therapeutic Cloning
- D. Molecular Cloning

Explain the process of somatic cell nuclear transfer (SCNT) and its significance in cloning.

- A. SCNT involves transferring the nucleus of a somatic cell into an egg cell whose nucleus has been removed.** ✓
- B. SCNT is a method of gene editing.
- C. SCNT is used only for plant cloning.
- D. SCNT has no significance in cloning.

What are some risks associated with cloning?

- A. High failure rates** ✓
- B. Enhanced genetic diversity
- C. Health problems in clones** ✓
- D. Improved ecosystem balance

What is the primary goal of genetic engineering in cloning?

- A. To create new species
- B. To alter an organism's characteristics** ✓
- C. To eliminate genetic disorders
- D. To improve food taste

How can cloning be applied in medicine?

- A. Regenerative medicine** ✓
- B. Drug testing** ✓
- C. Cloning of historical figures
- D. Vaccine development

Discuss the ethical implications of cloning humans. What are the main arguments for and against it?

- A. Human cloning is widely accepted.
- B. Human cloning raises ethical concerns.** ✓
- C. Human cloning has no arguments against it.
- D. Human cloning is only beneficial.

What were the scientific and societal impacts of cloning Dolly the Sheep?

- A. Dolly's cloning had no impact.
- B. Dolly's cloning sparked ethical debates.** ✓

- C. Dolly's cloning was only a scientific success.
- D. Dolly's cloning was not significant.

Describe the role of stem cells in therapeutic cloning and their potential medical applications.

- A. Stem cells can only develop into one type of cell.
- B. Stem cells can develop into various cell types. ✓**
- C. Stem cells have no medical applications.
- D. Stem cells are only used in research.

What is transferred in the SCNT process?

- A. Egg cell nucleus
- B. Somatic cell nucleus ✓**
- C. Mitochondria
- D. Ribosomes

How can cloning contribute to conservation efforts?

- A. Cloning endangered species ✓**
- B. Increasing genetic variation
- C. Restoring extinct species ✓**
- D. ReducING human impact on habitats

Which type of cloning involves the use of stem cells?

- A. Reproductive Cloning
- B. Therapeutic Cloning ✓**
- C. Gene Cloning
- D. None of the above

Evaluate the potential environmental impacts of cloning on biodiversity and ecosystems.

- A. Cloning has no environmental impact.
- B. Cloning could reduce genetic diversity. ✓**
- C. Cloning improves ecosystem balance.

D. Cloning only benefits biodiversity.

What are some potential benefits of cloning?

- A. Organ transplantation ✓**
- B. Increased biodiversity
- C. Treatment of genetic disorders ✓**
- D. Faster reproduction of species

What are some technological challenges in cloning?

- A. High costs ✓**
- B. Ethical approval
- C. Technical expertise required ✓**
- D. Immediate success rates

Which of the following is a common ethical concern about cloning?

- A. Cost of cloning
- B. Identity and individuality of clones ✓**
- C. Speed of cloning
- D. Popularity of cloning

How do different countries regulate cloning, and what factors influence these regulations?

- A. Cloning regulations are the same worldwide.
- B. Regulations vary by country. ✓**
- C. Cloning is banned everywhere.
- D. Cloning is only allowed in some countries.

What are some uses of cloning in agriculture?

- A. Cloning livestock with desirable traits ✓**
- B. Increasing crop diversity
- C. Producing disease-resistant plants ✓**
- D. Enhancing soil fertility