

## Cloning Quiz PDF

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

- Economic status
- Societal values
- Climate
- Population size

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

- Polly
- Molly
- Dolly
- Holly

#### What is cloning?

- The process of creating genetically identical copies of an organism or cell.
- The process of breeding animals.
- The process of mixing different species.
- The process of genetic mutation.

#### Which type of cloning is used to produce whole animals?

- Gene Cloning
- Reproductive Cloning
- Therapeutic Cloning
- Molecular Cloning

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

- SCNT involves transferring the nucleus of a somatic cell into an egg cell whose nucleus has been removed.

- SCNT is a method of gene editing.
- SCNT is used only for plant cloning.
- SCNT has no significance in cloning.

**What are some risks associated with cloning?**

- High failure rates
- Enhanced genetic diversity
- Health problems in clones
- Improved ecosystem balance

**What is the primary goal of genetic engineering in cloning?**

- To create new species
- To alter an organism's characteristics
- To eliminate genetic disorders
- To improve food taste

**How can cloning be applied in medicine?**

- Regenerative medicine
- Drug testing
- Cloning of historical figures
- Vaccine development

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

- Human cloning is widely accepted.
- Human cloning raises ethical concerns.
- Human cloning has no arguments against it.
- Human cloning is only beneficial.

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

- Dolly's cloning had no impact.
- Dolly's cloning sparked ethical debates.
- Dolly's cloning was only a scientific success.
- Dolly's cloning was not significant.

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

- Stem cells can only develop into one type of cell.
- Stem cells can develop into various cell types.
- Stem cells have no medical applications.
- Stem cells are only used in research.

**What is transferred in the SCNT process?**

- Egg cell nucleus
- Somatic cell nucleus
- Mitochondria
- Ribosomes

**How can cloning contribute to conservation efforts?**

- Cloning endangered species
- Increasing genetic variation
- Restoring extinct species
- ReducING human impact on habitats

**Which type of cloning involves the use of stem cells?**

- Reproductive Cloning
- Therapeutic Cloning
- Gene Cloning
- None of the above

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

- Cloning has no environmental impact.
- Cloning could reduce genetic diversity.
- Cloning improves ecosystem balance.
- Cloning only benefits biodiversity.

**What are some potential benefits of cloning?**

- Organ transplantation
- Increased biodiversity
- Treatment of genetic disorders
- Faster reproduction of species

**What are some technological challenges in cloning?**

- High costs
- Ethical approval
- Technical expertise required
- Immediate success rates

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

- Cost of cloning
- Identity and individuality of clones
- Speed of cloning
- Popularity of cloning

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

- Cloning regulations are the same worldwide.
- Regulations vary by country.
- Cloning is banned everywhere.
- Cloning is only allowed in some countries.

**What are some uses of cloning in agriculture?**

- Cloning livestock with desirable traits
- Increasing crop diversity
- Producing disease-resistant plants
- Enhancing soil fertility