

Name: _____ **KEY** _____

Period: _____

Biology: Genetic Technology questions

(revised 11/2015)

1. Selective breeding has been used for at least 2,000 years. What job (career) do you think the first breeders had?

Farmers

2. Besides being gross, marrying close relatives is illegal in the United States. Since rare recessive genes control most deadly diseases, explain how this law helps protect the health of future generations.

Reduces the chances of two recessive alleles coming together to produce disorders.

3. Mutts (non purebred) dogs from an animal shelter often make great pets because they generally live long, healthy lives. What would a geneticist call a "mutt" and how would they explain its health.

Mutts to a geneticist are "hybrids". The health and strong growth of most hybrids is referred to as "hybrid vigor".

4. Compare and contrast selective breeding and genetic engineering.

Both are used to change traits of organisms. Selective breeding tries to make organisms "purebred" for the trait, in other words make a trait that is already present in some individuals the more common version of the trait. Genetic engineering usually targets a specific gene, and can even take genes (and therefore a trait) from a different type of organism.

5. DNA must be cut to change its genes. But DNA is way too small to cut even with a laser. What is used to cut DNA?

Restriction enzymes

6. What is a transgenic organism?

An organism with functional DNA in it obtained from a different organism

7. Both mechanical and biological types of DNA vectors are useful. What is the benefit of each?

Mechanical provides more control over which cells get the new gene, biological uses a natural process that incorporates the gene into the host's DNA. Biological shows more promise of working in a whole organism as opposed to cells in a laboratory.

8. How is reproductive cloning achieved? (list as steps).

- 1. Obtain a 2n donor cell. Fresh, new cells such as skin cells work best.**
- 2. Get a donor egg cell. Remove nucleus from egg (enucleate).**
- 3. Put DNA from 2n donor cell into egg.**
- 4. Plant "fertilized" egg in womb of surrogate mother.**

9. Why is reproductive cloning being mostly abandoned by genetic researchers?

Poor success rate and lots of birth defects.

Holt Biology Genetic Technology Answers

Christian Drosten



Holt Biology Genetic Technology Answers:

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