

Name: _____ **ANSWER KEY** _____ Date: _____ Class: _____

Quarter II, part II:
Genetics Final Exam Study Guide

Directions: Write the following answers on a sheet of notebook paper.

Part I: Vocabulary-Define all of the following terms (in your OWN words):

1. **Gene-** the set of information that controls a trait; a segment of DNA on a chromosome that codes for a specific trait.
2. **Trait-** a characteristic that an organism can pass on to its offspring through its genes.
3. **Genotype-** an organism's genetic makeup or allele combinations (ex: BB, Bb, or bb).
4. **Phenotype-** an organism's physical appearance or visible trait (ex: brown eyes, brown eyes, blue eyes).
5. **DNA-** Deoxyribonucleic acid; the genetic material that carries information about an organism and is passed from parent to offspring.
6. **Dominant-** a trait that is always expressed in the phenotype of an organism; represented with a capital letter.
7. **Recessive-** a trait that is expressed *only* when two alleles are present; represented with a lowercase letter.
8. **Allele-** the different forms of a gene; offspring is given 1 allele from each parent for each trait.
9. **Chromosome-** a double rod of condensed chromatin in the nucleus that contains DNA
10. **Heredity-** the passing of traits from parents to offspring.
11. **Genetics-** The study of how traits are inherited through the interactions of alleles.
12. **Heterozygous-** Having two *different* alleles for a trait. (EX: Rr –results in dominant phenotype)
13. **Homozygous-** Having two *identical* alleles for a trait. (Ex:RR (homozygous dominant) or rr (homozygous recessive))
14. **Purebred-** 2 identical alleles (synonym for homozygous)
15. **Hybrid-** 2 different alleles for a trait (synonym (heterozygous))

Genetics High School Study Guide With Answers

Samuel C. Brownstein, Mitchel Weiner



Genetics High School Study Guide With Answers:

Genetics High School Study Guide With Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Genetics High School Study Guide With Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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