

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, 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 Spring Final Exam Study Guide

Jiyuan Zhang



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