

# Genetics Unit Test Study Guide With Answer Key

## Genetics Study Guide

1. What is Gregor Mendel? What did he discover? How did he discover it? What plants did he use for research?
2. What's the difference between P<sub>1</sub>, F<sub>1</sub>, and F<sub>2</sub> generations?
3. What is a single factor cross? What is the result?
4. What is a two factor cross? What is the result?
5. What is the difference between phenotype and genotype?
6. Dominant traits are expressed using what type of allele?
7. Recessive traits are expressed using what type of allele?
8. Which two genes are most likely to be affected by a crossing over?
9. Compare and contrast haploid and diploid cells.
10. A gardener crosses a true-breeding tall tomato plant bearing red fruit with a true-breeding dwarf tomato plant with yellow fruit. In tomatoes, tall vine (T) is dominant to dwarf vine (t), and red fruit (R) is dominant to yellow fruit (r). The results are labeled the F<sub>1</sub> generation. Then the gardener allows F<sub>1</sub> plants to reproduce by self-pollination, generating the F<sub>2</sub> generation. What are the phenotypes and genotypes for the F<sub>2</sub> generation?
  - a.
  - b.
  - c.
  - d.
11. Red blood cells carry antigens on their surfaces coded for by alleles of the gene represented by the letter I. The allele I<sup>A</sup> is dominant to i and produces antigen A on the surface of red blood cells. The allele I<sup>B</sup> is also dominant to the i allele and produces antigen B on the surface of red blood cells. The i allele does not produce surface antigens. What would the phenotypes and genotypes be if you crossed one of each?
  - a. Genotypes -
  - b. Phenotypes -

Covers Gregor Mendel, genotypes, phenotypes, one and two factor crosses, dominant and recessives alleles, and more!

# Genetics Answer Key Guide

**G Thomas**



## **Genetics Answer Key Guide:**

Embark on a breathtaking journey through nature and adventure with Crafted by is mesmerizing ebook, **Genetics Answer Key Guide** . This immersive experience, available for download in a PDF format ( PDF Size: \*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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