

# 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 plant did he use for research?
2. What's the difference between P1, F1, and P2 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 F1 generation. Then the gardener allows F1 plants to reproduce by self-pollination, generating the F2 generation. What are the phenotypes and genotypes for the F2 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 IA is dominant to i and produces antigen A on the surface of red blood cells. The allele IB 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

**Padhraic Smyth**



## **Genetics Answer Key Guide:**

## Reviewing **Genetics Answer Key Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Genetics Answer Key Guide**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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