

1. Define the following:

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Genotype</b>            | The combination of alleles that an organism has for a trait            |
| <b>Phenotype</b>           | The physical trait/expression of an organisms genotype                 |
| <b>Dominant (allele)</b>   | Allele that will be expressed as long as there is at least one copy    |
| <b>Recessive (allele)</b>  | Allele that will only be expressed if no dominant alleles are present  |
| <b>Codominant (allele)</b> | Alleles that will both influence phenotype if present in an individual |
| <b>Carrier</b>             | An individual with a recessive allele who does not express it          |

2. The allele for tall plants (T) is dominant over the allele for dwarf plants (t). State the possible genotypes and phenotypes of a plant for this trait:

| Genotype | Phenotype |
|----------|-----------|
| TT       | tall      |
| Tt       | tall      |
| tt       | dwarf     |

3. Mendel is known as the father of genetics for his extensive experimental work with peas and different types of crosses. In a classic example of Mendel's work, he determined that the gene for pea color had two alleles. The allele for yellow color was dominant (Y) and the allele for green color (y) is recessive. Draw a Punnett square to cross two heterozygous yellow peas and determine the predicted genotype and phenotype ratios of the possible offspring:

|   |    |    |
|---|----|----|
|   | Y  | y  |
| Y | YY | Yy |
| y | Yy | yy |

Genotype ratio: 1:2:1 (YY:Yy:yy)

Phenotype ratio: 3:1 (Yellow:Green)

4. Human ABO blood types follow a codominant inheritance pattern.

- a. How is the ABO blood group gene an example of 'multiple alleles'?

There are three alleles ( $I^A$ ,  $I^B$ ,  $i$ ) instead of the normal 2.

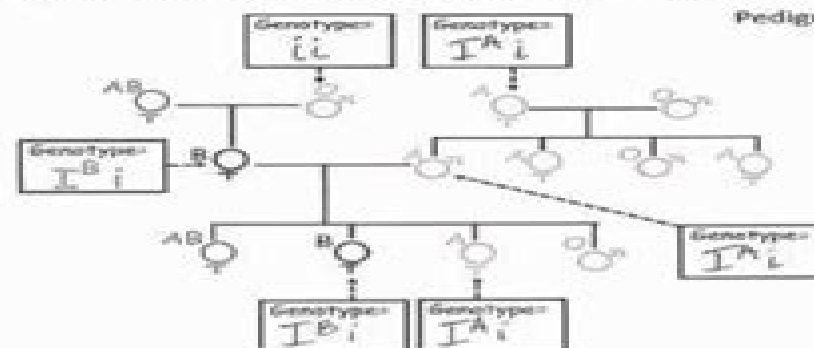
- b. Complete the table below to show how blood type is inherited.

| alleles | i           | $I^A$              | $I^B$          |
|---------|-------------|--------------------|----------------|
| i       | ii (Type O) | $I^A i$ (A)        | $I^B i$ (B)    |
| $I^A$   | $I^A i$ (A) | $I^A I^A$ (Type A) | $I^A I^B$ (AB) |
| $I^B$   | $I^B i$ (B) | $I^A I^B$ (AB)     | $I^B I^B$ (B)  |

codominance

- c. Highlight the genotype and phenotype which is an example of codominance. — AB

- d. Complete this pedigree chart to show the inheritance of blood types in this family.



antigen



# Biology Study Guide Answer Key Enzymes

**J Dewey**



## **Biology Study Guide Answer Key Enzymes:**

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