

Concept Review Questions and Answers—Chapter 10

10.1 Meiosis, Genes, and Alleles

1. How does the term gene relate to the term allele?

Genes are a segment of DNA with the necessary information to code for a protein and regulate its expression and are at specific locations on chromosomes. The many forms a gene can have are referred to as its alleles.

2. Define the term genome.

A genome is a set of all the genes necessary to code for all of an organism's characteristics.

3. What is meant by the symbols n and $2n$?

n = haploid, one of each kind of chromosome

$2n$ = diploid; two of each kind of chromosome

10.2 The Fundamentals of Genetics

4. Distinguish between phenotype and genotype.

Phenotype is the way each combination of alleles *expresses* (shows) itself; genotype is a listing of the genes present in that organism and usually expressed as a pair of letters representing the alleles.

5. What types of symbols are typically used to express genotypes?

Capital letters are usually used to show dominant alleles, while the lower case of that same letter is used to show the recessive allele for that trait. In some situations superscripts and subscripts might be added for clarification.

6. How many kinds of gametes are possible with the following genotype Aa ?

2

7. What is the difference between a single factor and double factor cross?

A single factor cross is a controlled mating or breeding designed to look at how one genetically determined characteristic is inherited while a double factor cross follows two genetically determined traits.

10.3 Probability vs. Possibility

8. What is the difference between probability and possibility?

Probability is the mathematical chance that an event will happen. Possibility is statements which describes whether an event can occur or not occur; i.e., yes or no.

9. In what mathematical forms might probability be expressed?

It is often expressed as a percentage or a fraction.

Modern Biology Fundamentals Of Genetics Answer Key

Judd E. Hollander



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