

11 Introduction to Genetics Practice Test

Multiple Choice

Write the letter that best answers the question or completes the statement on the line provided.

- _____ 1. A mule is the result of a cross between a donkey and a horse. A mule is a
 - a. tetrad.
 - b. phenotype.
 - c. genotype.
 - d. hybrid.
- _____ 2. A tall plant (TT) is crossed with a short plant (tt). If the tall F_1 pea plants are allowed to self-pollinate,
 - a. the offspring will be of medium height.
 - b. all of the offspring will be tall.
 - c. all of the offspring will be short.
 - d. the offspring can be tall or short.
- _____ 3. The principles of probability can be used to
 - a. predict the traits of the off spring of genetic crosses.
 - b. determine the actual outcomes of genetic crosses.
 - c. determine which species should be used in genetic crosses.
 - d. decide which organisms are best to use in genetic crosses.
- _____ 4. A heterozygous tall pea plant is crossed with a short plant. The probability that an F_1 plant will be tall is
 - a. 25%.
 - b. 50%.
 - c. 75%.
 - d. 100%.
- _____ 5. Why did Thomas Hunt Morgan use fruit flies in his studies?
 - a. Fruit flies produce a large number of offspring.
 - b. Fruit flies take a long time to produce offspring.
 - c. Fruit flies share certain characteristics with pea plants.
 - d. Fruit flies have a long life span.
- _____ 6. Linked genes
 - a. are never separated.
 - b. assort independently.
 - c. are on the same chromosome.
 - d. are always recessive.
- _____ 7. If a pea plant has a recessive allele for green peas, it will produce
 - a. green peas if it also has a dominant allele for yellow peas.
 - b. both green peas and yellow peas if it also has a dominant allele for yellow peas.
 - c. green peas if it does not also have a dominant allele for yellow peas.

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ML Morrison



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Whispering the Strategies of Language: An Psychological Quest through **Prentice Hall Biology Chapter Assessment**

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