Chapter 16 Evolution of Populations Test

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the avestion.

- 1. If an allele makes up one fourth of a population's alleles for a given trait, its relative frequency is
 - a. 100 percent. e. 25 percent.
 - b. 75 percent. d. 4 percent.
- When individuals with an average form of a trait have the highest fitness, the result is
 - e. directional selection. a. not predictable.
 - b. disruptive selection. stabilizing selection.
- 3. Genetic drift tends to occur in populations that
 - a. are very large.
 - b. are small.
 - c. are formed from new species.
 - d. have unchanging allele frequencies.
- 4. The type of genetic drift that follows the colonization of a new habitat by a small group of individuals is called
 - a. the Hardy-Weinberg principle.
 - e. directional selection. b. the founder effect. d. stabilizing selection.
- 5. The allele frequencies of a population are more likely to remain unchanged if
 - a. the population size is reduced.
 - frequent movement into and out of the population occurs.
 - c. all mating is random.
 - the mutation rate increases.
- 6. What situation might develop in a population having some plants whose flowers open at midday and other plants whose flowers open late in the day?
 - a. behavioral isolation c. temporal isolation
 - b. geographic isolation. d. genetic drift
- 7. The Galápagos finch species are an excellent example of
 - a. speciation. e. stabilizing selection.
 - b. genetic equilibrium. d. selection on single-gene traits.
- 8. The combined genetic information of all members of a particular population is the population's
 - a. relative frequency. e. genotype.
 - b. phenotype. d. gene pool.
- 9. The two main sources of genetic variation are
 - a. genotypes and phenotypes.
 - b. gene shuffling and mutations.
 - c. single-gene traits and polygenic traits.
 - d. directional selection and disruptive selection.
- An example of a single-gene trait is:
 - a. a widow's peak in humans.
 - b. the weight of human infants at birth.
 - c. height in humans.
 - d. beak size in the Galápagos finches.
- 11. The distribution of phenotypes for a typical polygenic trait can often be expressed as
 - a. a bar graph.

c. Mendelian ratios.

b. a bell-shaped curve.

- d. allele frequencies.
- 12. Which of the following is NOT a way in which natural selection affects the distribution of phenotypes?

Evolution Of Populations Chapter 16 Answers

David L. Wilson

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