

## Chapter 16 Evolution of Populations Test

### Multiple Choice

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

- If an allele makes up one fourth of a population's alleles for a given trait, its relative frequency is
  - 100 percent.
  - 75 percent.
  - 25 percent.
  - 4 percent.
- When individuals with an average form of a trait have the highest fitness, the result is
  - not predictable.
  - disruptive selection.
  - directional selection.
  - stabilizing selection.
- Genetic drift tends to occur in populations that
  - are very large.
  - are small.
  - are formed from new species.
  - have unchanging allele frequencies.
- The type of genetic drift that follows the colonization of a new habitat by a small group of individuals is called
  - the Hardy-Weinberg principle.
  - the founder effect.
  - directional selection.
  - stabilizing selection.
- The allele frequencies of a population are more likely to remain unchanged if
  - the population size is reduced.
  - frequent movement into and out of the population occurs.
  - all mating is random.
  - the mutation rate increases.
- 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?
  - behavioral isolation
  - geographic isolation
  - temporal isolation
  - genetic drift
- The Galápagos finch species are an excellent example of
  - speciation.
  - genetic equilibrium.
  - stabilizing selection.
  - selection on single-gene traits.
- The combined genetic information of all members of a particular population is the population's
  - relative frequency.
  - phenotype.
  - genotype.
  - gene pool.
- The two main sources of genetic variation are
  - genotypes and phenotypes.
  - gene shuffling and mutations.
  - single-gene traits and polygenic traits.
  - directional selection and disruptive selection.
- An example of a single-gene trait is
  - a widow's peak in humans.
  - the weight of human infants at birth.
  - height in humans.
  - beak size in the Galápagos finches.
- The distribution of phenotypes for a typical polygenic trait can often be expressed as
  - a bar graph.
  - a bell-shaped curve.
  - Mendelian ratios.
  - allele frequencies.
- Which of the following is NOT a way in which natural selection affects the distribution of phenotypes?

# Biology Chapter 16 Evolution Of Populations Test Answers

**Michael E. Hochberg, Anthony R. Ives**

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