

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?

Evolution Of Populations Chapter 16 Test

Karin Nielsen-Saines



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web fermat s last theorem states that $x^n + y^n = z^n$ has no non zero integer solutions for x y x y and z z when $n \geq 2$ fermat wrote i have discovered a truly remarkable proof which this margin is too small to contain fermat almost certainly wrote the marginal note around 1630 when he first studied diophantus s arithmetica

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web 26 1 fermat s last theorem in 1637 pierre de fermat famously wrote in the margin of a copy of diophantus arithmetica that the equation $x^n + y^n = z^n$ has no integer solutions with $xyz \neq 0$ and $n \geq 2$ and claimed to have a remarkable proof of this fact