

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?

Environmental Science Population Test Study Guide Answers

Gary S. Thorpe



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Environment, Third

Edition with the 2001 World Population Data Sheet and Free Access to New Online Library SET Peter H. Raven, 2001-06-25

The A. P. Environmental Science Michael Lopatka, 2002-07 Environmental Science Bernard J. Nebel, Clark E.

Adams, Richard T. Wright, 1999-07

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studies that will help students process and retain the general principles

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Study Guide to Accompany Environment Peter H. Raven, Linda R. Berg, Elizabeth E. Reeder, 2000-07-21 *Environmental Science* Clark E. Adams, 2004-06 This study guide helps students identify the important concepts from the text and then provides them with review exercises study questions self check exercises and vocabulary review

Barron's AP Environmental Science Gary S. Thorpe, 2009-02-01 This test preparation manual for the AP Environmental Science exam presents two full length practice exams with all questions answered and explained plus an extensive subject review Test topic reviews fall into three general categories Earth Systems and Resources The Living World and Population Each section is filled practice questions and quizzes with answers The manual also presents an overview of the test helpful test taking strategies and hundreds of diagrams and illustrations

Essentials of Environmental Science Andrew Friedland, Rick Relyea, David Courard-Hauri, 2015-12-02 At just 15 chapters *Essentials of Environmental Science* is ideal for a one semester course It takes the same non biased approach as its parent text teaching students to think critically about data presented In addition to being briefer *Essentials* is even more accessible placing less emphasis on math calculations The coverage of ecology agriculture energy and water has also been streamlined to provide a more focused treatment of the science concepts

Essentials of Environmental Science Bernard J. Nebel, G. S. Dhaliwal, Pearson Custom Publishing, S. S. Kukal, 1999-11

Living in the Environment George Tyler Miller, 2002

Children's Books in Print R R Bowker Publishing, Bowker, 1999-12

Study Guide to Accompany Biology: Life on Earth by Teresa Audesirk and Gerald Audesirk David J. Cotter, 1986

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