

## 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 Answers

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

## **Evolution Of Populations Chapter 16 Answers:**

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**Parasitoid Population Biology** Michael E. Hochberg,Anthony Ragnar Ives,Anthony R. Ives,2000-08-27 Extraordinary in the diversity of their lifestyles insect parasitoids have become extremely important study organisms in the field of population biology and they are the most frequently used agents in the biological control of insect pests This book presents the ideas of seventeen international specialists providing the reader not only with an overview but also with lively discussions of the most salient questions pertaining to the field today and prescriptions for avenues of future research After a general introduction the book divides into three main sections population dynamics population diversity and population applications The first section covers gaps in our knowledge in parasitoid behavior parasitoid persistence and how space and landscape affect dynamics The contributions on population diversity consider how evolution has molded parasitoid populations and communities The final section calls for novel approaches toward resolving the enigma of success in biological control and questions why parasitoids have been largely neglected in conservation biology Parasitoid Population Biology will likely be an important influence on research well into the twenty first century and will provoke discussion amongst parasitoid biologists and population biologists In addition to the editors the contributors are Carlos Bernstein Jacques Brodeur Jerome Casas H C J Godfray Susan Harrison Alan Hastings Bradford A Hawkins George E Heimpel Marcel Holyoak Nick Mills Bernard D Roitberg Jens Roland Michael R Strand Teja Tscharntke and Minus van Baalen **Videodisc Correlatn GD Modern Biology 99** Holt Rinehart & Winston,1998-02 Genetics Solutions and Problem Solving MegaManual Benjamin

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