

Biology 19

The Evolution of Populations

MCQ

Author: OpenStax College

Published 2015

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4. Chapter: Biology 19 The Evolution of Populations MCQ

1. Biology 19 The Evolution of Populations MCQ Questions

4.1.1. What is the difference between micro- and macroevolution?

Author: OpenStax College

What is the difference between micro- and macroevolution?

Please choose only one answer:

- Microevolution describes the evolution of small organisms, such as insects, while macroevolution describes the evolution of large organisms, like people and elephants.
- Microevolution describes the evolution of microscopic entities, such as molecules and proteins, while macroevolution describes the evolution of whole organisms.
- Microevolution describes the evolution of organisms in populations, while macroevolution describes the evolution of species over long periods of time.
- Microevolution describes the evolution of organisms over their lifetimes, while macroevolution describes the evolution of organisms over multiple generations.

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4.1.2. Population genetics is the study of:

Author: OpenStax College

Population genetics is the study of:

Please choose only one answer:

- how selective forces change the allele frequencies in a population over time
- the genetic basis of population-wide traits
- whether traits have a genetic basis
- the degree of inbreeding in a population

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4.1.3. Which of the following populations is not in Hardy-Weinberg equilib...

Author: OpenStax College

Which of the following populations is not in Hardy-Weinberg equilibrium?

Please choose only one answer:

- a population with 12 homozygous recessive individuals (yy), 8 homozygous dominant individuals (YY), and 4 heterozygous individuals (Yy)
- a population in which the allele frequencies do not change over time
- $p^2 + 2pq + q^2 = 1$
- a population undergoing natural selection

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4.1.4. One of the original Amish colonies rose from a ship of colonists th...

Author: OpenStax College

One of the original Amish colonies rose from a ship of colonists that came from Europe. The ship's captain, who had polydactyly, a rare dominant trait, was one of the original colonists. Today, we see a much higher frequency of polydactyly in the Amish population. This is an example of:

Please choose only one answer:

- natural selection
- genetic drift
- founder effect
- b and c

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4.1.5. When male lions reach sexual maturity, they leave their group in se...

Author: OpenStax College

When male lions reach sexual maturity, they leave their group in search of a new pride. This can alter the allele frequencies of the population through which of the following mechanisms?

Please choose only one answer:

- natural selection
- genetic drift
- gene flow
- random mating

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

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4.1.6. Which of the following evolutionary forces can introduce new geneti...

Author: OpenStax College

Which of the following evolutionary forces can introduce new genetic variation into a population?

Please choose only one answer:

- natural selection and genetic drift
- mutation and gene flow
- natural selection and nonrandom mating
- mutation and genetic drift

Check the answer of this question online at QuizOver.com:

Question: [Which of the following evolutionary forces OpenStax College Biology](#)

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4.1.7. What is assortative mating?

Author: OpenStax College

What is assortative mating?

Please choose only one answer:

- when individuals mate with those who are similar to themselves
- when individuals mate with those who are dissimilar to themselves
- when individuals mate with those who are the most fit in the population
- when individuals mate with those who are least fit in the population

Check the answer of this question online at QuizOver.com:

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4.1.8. When closely related individuals mate with each other, or inbreed, ...

Author: OpenStax College

When closely related individuals mate with each other, or inbreed, the offspring are often not as fit as the offspring of two unrelated individuals. Why?

Please choose only one answer:

- Close relatives are genetically incompatible.
- The DNA of close relatives reacts negatively in the offspring.
- Inbreeding can bring together rare, deleterious mutations that lead to harmful phenotypes.
- Inbreeding causes normally silent alleles to be expressed.

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4.1.9. What is a cline?

Author: OpenStax College

What is a cline?

Please choose only one answer:

- the slope of a mountain where a population lives
- the degree to which a mutation helps an individual survive
- the number of individuals in the population
- gradual geographic variation across an ecological gradient

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4.1.10. Which type of selection results in greater genetic variance in a po...

Author: OpenStax College

Which type of selection results in greater genetic variance in a population?

Please choose only one answer:

- stabilizing selection
- directional selection
- diversifying selection
- positive frequency-dependent selection

Check the answer of this question online at QuizOver.com:

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4.1.11. When males and females of a population look or act differently, it ...

Author: OpenStax College

When males and females of a population look or act differently, it is referred to as _____.

Please choose only one answer:

- sexual dimorphism
- sexual selection
- diversifying selection
- a cline

Check the answer of this question online at QuizOver.com:

Question: [When males and females of a population OpenStax College Biology 1](#)

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4.1.12. The good genes hypothesis is a theory that explains what?

Author: OpenStax College

The good genes hypothesis is a theory that explains what?

Please choose only one answer:

- why more fit individuals are more likely to have more offspring
- why alleles that confer beneficial traits or behaviors are selected for by natural selection
- why some deleterious mutations are maintained in the population
- why individuals of one sex develop impressive ornamental traits

Check the answer of this question online at QuizOver.com:

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