

Biology 18

Evolution

& the Origin

of Species

MCQ

Author: OpenStax College

Published 2015

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4. Chapter: Biology 18 Evolution & the Origin of Species MCQ

1. Biology 18 Evolution & the Origin of Species MCQ Questions

4.1.1. Which scientific concept did Charles Darwin and Alfred Wallace inde...

Author: OpenStax College

Which scientific concept did Charles Darwin and Alfred Wallace independently discover?

Please choose only one answer:

- mutation
- natural selection
- overbreeding
- sexual reproduction

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

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4.1.2. Which of the following situations will lead to natural selection?

Author: OpenStax College

Which of the following situations will lead to natural selection?

Please choose only one answer:

- The seeds of two plants land near each other and one grows larger than the other.
- Two types of fish eat the same kind of food, and one is better able to gather food than the other.
- Male lions compete for the right to mate with females, with only one possible winner.
- all of the above

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4.1.3. Which description is an example of a phenotype?

Author: OpenStax College

Which description is an example of a phenotype?

Please choose only one answer:

- A certain duck has a blue beak.
- A mutation occurred to a flower.
- Most cheetahs live solitary lives.
- both a and c

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

Question: [Which description is an example of a OpenStax College Biology 18](#)

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4.1.4. Which situation is most likely an example of convergent evolution?

Author: OpenStax College

Which situation is most likely an example of convergent evolution?

Please choose only one answer:

- Squid and humans have eyes similar in structure.
- Worms and snakes both move without legs.
- Some bats and birds have wings that allow them to fly
- all of the above

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4.1.5. Which situation would most likely lead to allopatric speciation?

Author: OpenStax College

Which situation would most likely lead to allopatric speciation?

Please choose only one answer:

- flood causes the formation of a new lake.
- A storm causes several large trees to fall down.
- A mutation causes a new trait to develop.
- An injury causes an organism to seek out a new food source.

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

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4.1.6. What is the main difference between dispersal and vicariance?

Author: OpenStax College

What is the main difference between dispersal and vicariance?

Please choose only one answer:

- One leads to allopatric speciation, whereas the other leads to sympatric speciation.
- One involves the movement of the organism, and the other involves a change in the environment.
- One depends on a genetic mutation occurring, and the other does not.
- One involves closely related organisms, and the other involves only individuals of the same species.

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4.1.7. Which variable increases the likelihood of allopatric speciation ta...

Author: OpenStax College

Which variable increases the likelihood of allopatric speciation taking place more quickly?

Please choose only one answer:

- lower rate of mutation
- longer distance between divided groups
- increased instances of hybrid formation
- equivalent numbers of individuals in each population

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Question: [Which variable increases the likelihood OpenStax College Biology](#)

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4.1.8. What is the main difference between autopolyploid and allopolyploid?

Author: OpenStax College

What is the main difference between autopolyploid and allopolyploid?

Please choose only one answer:

- the number of chromosomes
- the functionality of the chromosomes
- the source of the extra chromosomes
- the number of mutations in the extra chromosomes

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

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4.1.9. Which reproductive combination produces hybrids?

Author: OpenStax College

Which reproductive combination produces hybrids?

Please choose only one answer:

- when individuals of the same species in different geographical areas reproduce
- when any two individuals sharing the same habitat reproduce
- when members of closely related species reproduce
- when offspring of the same parents reproduce

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

Question: [Which reproductive combination produces OpenStax College Biology](#)

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4.1.10. Which condition is the basis for a species to be reproductively iso...

Author: OpenStax College

Which condition is the basis for a species to be reproductively isolated from other members?

Please choose only one answer:

- It does not share its habitat with related species.
- It does not exist out of a single habitat.
- It does not exchange genetic information with other species.
- It does not undergo evolutionary changes for a significant period of time.

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

Question: [Which condition is the basis for a species OpenStax College Biology](#)

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4.1.11. Which situation is not an example of a prezygotic barrier?

Author: OpenStax College

Which situation is not an example of a prezygotic barrier?

Please choose only one answer:

- Two species of turtles breed at different times of the year.
- Two species of flowers attract different pollinators.
- Two species of birds display different mating dances.
- Two species of insects produce infertile offspring.

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

Question: [Which situation is not an example of a OpenStax College Biology 1](#)

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4.1.12. Which term is used to describe the continued divergence of species ...

Author: OpenStax College

Which term is used to describe the continued divergence of species based on the low fitness of hybrid offspring?

Please choose only one answer:

- reinforcement
- fusion
- stability
- punctuated equilibrium

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

Question: [Which term is used to describe the continued OpenStax College Biology](#)

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4.1.13. Which components of speciation would be least likely to be a part o...

Author: OpenStax College

Which components of speciation would be least likely to be a part of punctuated equilibrium?

Please choose only one answer:

- a division of populations
- a change in environmental conditions
- ongoing gene flow among all individuals
- a large number of mutations taking place at once

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

Question: [Which components of speciation would be OpenStax College Biology](#)

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