Evolutionary Biology Unit 05: Speciation

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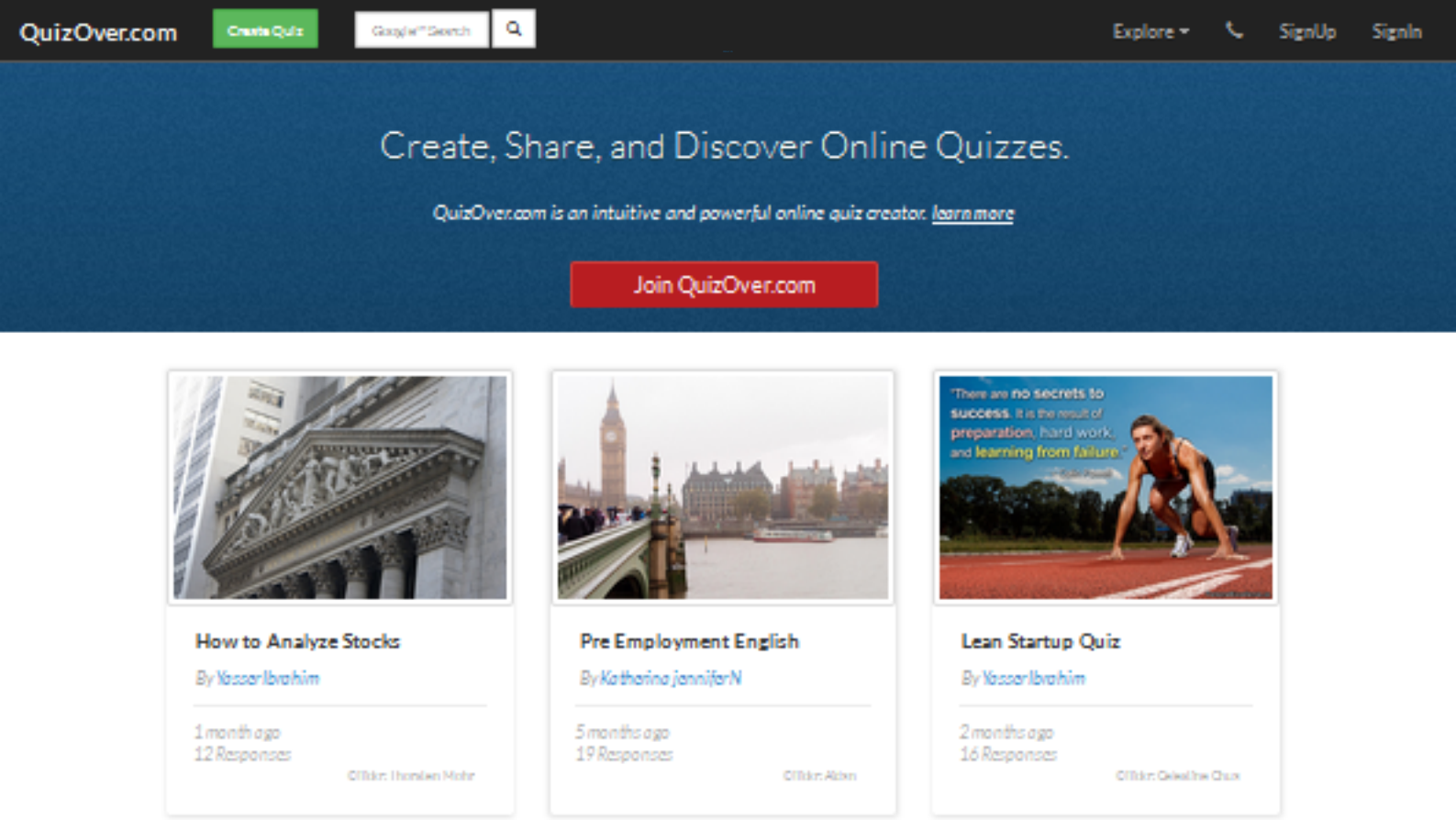

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Table of Contents

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1. Unit 05: Speciation

4. Chapter: Unit 05: Speciation

1. Unit 05: Speciation Questions

4.1.1. An epicanthic fold of skin is commonly found among Northern Asians....

Author: Olivia D'Ambrogio

An epicanthic fold of skin is commonly found among Northern Asians. This feature may have been advantageous in the bitter cold temperatures of Mongolia and parts of Northern China. Though during modern times this feature has lost its significance, it is still quite prominent among Asians. This an example of which of the following?

Please choose only one answer:

- Natural selection
- Genetic drift
- Mutation
- Migration

4.1.2. Galapagos finches are the same size. The only differences, which ha...

Author: Olivia D'Ambrogio

Galapagos finches are the same size. The only differences, which have developed based on their food habits on different islands, are in their bill size and shape. This is an example of which of the following?

Please choose only one answer:

- Allopatric speciation
- Sympatric speciation
- Parapatric speciation
- Allo-parapatric speciation

4.1.3. Hybrid zones are areas where hybrid offspring of two divergent popu...

Author: Olivia D'Ambrogio

Hybrid zones are areas where hybrid offspring of two divergent populations is prevalent. Which of the following statements regarding hybrid zone is false?

Please choose only one answer:

- Hybrid zones help in parapatric speciation.
- For a stable hybrid zone, the hybrids have to have higher fitness than the parents.
- Introgression is a common phenomenon in hybrid zones.
- Hybrid zones can be either primary or secondary origin.

4.1.4. In the Northeast Pacific, two species of orcas (killer whales) inha...

Author: Olivia D'Ambrogio

In the Northeast Pacific, two species of orcas (killer whales) inhabit the waters. Their preference of prey species is different, vocal communication is different, and social behavior is different. These two species avoid each other and never interbreed. This is a classic example of which of the following?

Please choose only one answer:

- Allopatric speciation
- Sympatric speciation
- Parapatric speciation
- None of the above

4.1.5. In the wild, 'Bufo americanus' and 'Bufo fowleri', two species of t...

Author: Olivia D'Ambrogio

In the wild, 'Bufo americanus' and 'Bufo fowleri', two species of toads, live in the same habitat at the same time. While these two species can be interbred in the laboratory, this interbreeding does not occur in nature. 'B. americanus' reproduces in the early summer, while 'B. fowleri' mates in the late summer. This is an example of which of the following reproductive isolating mechanisms?

Please choose only one answer:

- Prezygotic isolation
- Post zygotic isolation
- Temporal isolation
- Both A and C

4.1.6. Leakage of alleles across the hybrid zone is referred to as which o...

Author: Olivia D'Ambrogio

Leakage of alleles across the hybrid zone is referred to as which of the following?

Please choose only one answer:

- Introgressive hybridization
- Primary contact
- Secondary contact
- Disruptive selection

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Question: Leakage of alleles across the hybrid zone Olivia D @Saylor.org Evolutionary

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4.1.7. Males of wood and leopard frogs have different vocalizations which ...

Author: Olivia D'Ambrogio

Males of wood and leopard frogs have different vocalizations which attract only females of their species. This is a classic case of which mechanism?

Please choose only one answer:

- Prezygotic isolation
- Prezygotic and behavioral isolation
- Behavioral isolation
- Mechanical isolation

4.1.8. Ring species are an example of which of the following?

Author: Olivia D'Ambrogio

Ring species are an example of which of the following?

Please choose only one answer:

- Sympatric speciation
- Allopatric speciation
- Parapatric speciation
- Allo-parapatric speciation

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4.1.9. Some butterflies from the mainland are carried by a hurricane to an...

Author: Olivia D'Ambrogio

Some butterflies from the mainland are carried by a hurricane to an isolated island. These butterfly species have rare genes from those found on the island. Over the course of time, these rare genes drift to fixation in the island and ultimately evolve into a separate species from the mainland. This is an example of which of the following?

Please choose only one answer:

- Parapatric speciation
- Sympatric speciation
- Peripatric speciation
- Allo-parapatric speciation

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4.1.10. Speciation occurring in geographic isolation is known as which of t...

Author: Olivia D'Ambrogio

Speciation occurring in geographic isolation is known as which of the following?

Please choose only one answer:

- Parapatric speciation
- Founder effect speciation
- Allopatric speciation
- Allo-parapatric speciation

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4.1.11. Species is defined as which of the following?

Author: Olivia D'Ambrogio

Species is defined as which of the following?

Please choose only one answer:

- All organisms within a single family unit
- A group of similar individuals capable of interbreeding
- All organisms inhabiting the same area at the same time
- A single pair of individuals that can produce offspring

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4.1.12. The gradualist model of evolution differs from punctuated equilibri...

Author: Olivia D'Ambrogio

The gradualist model of evolution differs from punctuated equilibrium in which of the following ways?

Please choose only one answer:

- Punctuated equilibrium occurs at a slow and constant rate, while gradualist evolution occurs at a faster rate after a period of stasis.
- Gradualist evolution occurs at a slow and constant rate, while punctuated equilibrium occurs at a faster rate after a period of stasis.
- Punctuated equilibrium is not essential for the formation of new species, while gradualist evolution is essential.
- Gradualist evolution is not essential for the formation of new species, while punctuated equilibrium is essential.

4.1.13. Two species of dogs are unable to mate because of their sizes. This...

Author: Olivia D'Ambrogio

Two species of dogs are unable to mate because of their sizes. This is a classic example of which of the following mechanisms?

Please choose only one answer:

- Environmental isolation
- Temporal isolation
- Behavioral isolation
- Mechanical isolation

4.1.14. Which of the following is the most effective form of reproductive i...

Author: Olivia D'Ambrogio

Which of the following is the most effective form of reproductive isolation?

Please choose only one answer:

- Seasonal isolation
- Mechanical isolation
- Behavioral isolation
- Developmental isolation

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4.1.15. Which of the following statements regarding parapatric speciation i...

Author: Olivia D'Ambrogio

Which of the following statements regarding parapatric speciation is correct?

Please choose only one answer:

- The species population is not continuous.
- The population mates randomly.
- There is no extrinsic barrier to gene flow.
- The parent species does not live in a continuous habitat.

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