Evolution — Practice Test

Ontario Biology, Grade 11, University Preparation (SBI3U) • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A new allele in a population can arise by**

- A selection alone
- B migration only
- C mutation
- D drift only

Understand It with Pulse | Flag a mistake

2 Stabilizing selection favours

- A extreme phenotypes
- B only the largest individuals
- C only new mutations
- D intermediate phenotypes

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3 Directional selection favours

- A one extreme phenotype over others
- B intermediate phenotypes
- C all phenotypes equally
- D no phenotype

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4 Disruptive selection favours

- A intermediate phenotypes
- B both extreme phenotypes over intermediates
- C only one extreme
- D no variation

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5 An example of coevolution is

- A two unrelated species in different habitats
- B a species going extinct alone
- C a predator and prey evolving in response to each other
- D artificial selection in a lab only

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6 **The fossil Archaeopteryx is important because it shows features of both**

A fish and amphibians

B mammals and fish

C plants and animals

D reptiles and birds

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7 **Biogeography supports evolution because closely related species are often found**

A in nearby geographic areas, reflecting common ancestry and dispersal

B randomly everywhere

C only on one continent

D only in oceans

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8 **Embryological evidence for evolution includes**

A adult structures only

B similar early developmental stages in related vertebrates

C fossil ages only

D DNA sequences only

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9 **Which process can lead to reproductive isolation without geographic separation?**

A Gene flow

B Stabilizing selection

C Polyploidy in plants, which can create a new species in one generation

D Artificial selection only

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10 **Adaptive traits increase an organism chance of**

A living forever

B changing its genes by choice

C avoiding all predators

D surviving and reproducing in its environment

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ANSWER KEY

1.	C	**5.**	C	**9.**	C
2.	D	**6.**	D	**10.**	D
3.	A	**7.**	A		
4.	B	**8.**	B		

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