DELAWARE BIOLOGY · UNIT 3 · 25 QUESTIONS

Evolution and Diversity — Practice Test

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 **Which term is defined as follows: differential survival and reproduction due to inherited traits?**

- A natural selection
- B adaptation
- C variation
- D fossil

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2 **Which of the following is an example of natural selection?**

- A thick fur in a cold climate
- B nature favoring better adapted individuals
- C different beak sizes in finches
- D a shell imprint in rock

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3 **Which statement best describes natural selection?**

A adaptations arise over generations, not within one lifetime

B variation provides the raw material for selection

C natural selection acts on variation already present in a population

D fossils provide evidence about past life and environments

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4 **Which term is defined as follows: an inherited trait that improves survival or reproduction?**

A natural selection

B adaptation

C variation

D fossil

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5 **Which of the following is an example of adaptation?**

A nature favoring better adapted individuals

B different beak sizes in finches

C thick fur in a cold climate

D a shell imprint in rock

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6 **Which statement best describes adaptation?**

A natural selection acts on variation already present in a population

B variation provides the raw material for selection

C fossils provide evidence about past life and environments

D adaptations arise over generations, not within one lifetime

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7 **Which term is defined as follows: differences among individuals in a population?**

A natural selection

B adaptation

C variation

D fossil

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8 **Which of the following is an example of variation?**

A nature favoring better adapted individuals

B thick fur in a cold climate

C a shell imprint in rock

D different beak sizes in finches

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9 **Which statement best describes variation?**

A variation provides the raw material for selection

B natural selection acts on variation already present in a population

C adaptations arise over generations, not within one lifetime

D fossils provide evidence about past life and environments

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10 **Which term is defined as follows: preserved remains or traces of an organism?**

A natural selection

B adaptation

C variation

D fossil

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11 **Which of the following is an example of fossil?**

- A a shell imprint in rock
- B nature favoring better adapted individuals
- C thick fur in a cold climate
- D different beak sizes in finches

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12 **Which statement best describes fossil?**

- A natural selection acts on variation already present in a population
- B fossils provide evidence about past life and environments
- C adaptations arise over generations, not within one lifetime
- D variation provides the raw material for selection

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13 **Which term is defined as follows: a structure with shared ancestry but possibly different function?**

A homologous structure

B natural selection

C adaptation

D variation

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14 **Which of the following is an example of homologous structure?**

A nature favoring better adapted individuals

B a bat wing and a human arm

C thick fur in a cold climate

D different beak sizes in finches

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15 **Which statement best describes homologous structure?**

- **A** natural selection acts on variation already present in a population
- **B** adaptations arise over generations, not within one lifetime
- **C** homologous structures suggest common ancestry
- **D** variation provides the raw material for selection

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16 **Which term is defined as follows: a structure with similar function but different ancestry?**

- **A** natural selection
- **B** analogous structure
- **C** adaptation
- **D** variation

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17 **Which of the following is an example of analogous structure?**

- A nature favoring better adapted individuals
- B thick fur in a cold climate
- C a bird wing and an insect wing
- D different beak sizes in finches

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18 **Which statement best describes analogous structure?**

- A natural selection acts on variation already present in a population
- B adaptations arise over generations, not within one lifetime
- C variation provides the raw material for selection
- D analogous structures arise from similar pressures, not shared ancestry

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19 **Which term is defined as follows: the formation of a new species?**

- A natural selection
- B adaptation
- C speciation
- D variation

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20 **Which of the following is an example of speciation?**

- A nature favoring better adapted individuals
- B thick fur in a cold climate
- C different beak sizes in finches
- D one population splitting into two species

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21 **Which statement best describes speciation?**

A speciation often follows reproductive isolation

B natural selection acts on variation already present in a population

C adaptations arise over generations, not within one lifetime

D variation provides the raw material for selection

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22 **Which term is defined as follows: random change in allele frequencies?**

A natural selection

B adaptation

C variation

D genetic drift

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23 **Which of the following is an example of genetic drift?**

- **A** a small population losing an allele by chance
- **B** nature favoring better adapted individuals
- **C** thick fur in a cold climate
- **D** different beak sizes in finches

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24 **Which statement best describes genetic drift?**

- **A** natural selection acts on variation already present in a population
- **B** genetic drift has a larger effect in small populations
- **C** adaptations arise over generations, not within one lifetime
- **D** variation provides the raw material for selection

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Which term is defined as follows: movement of alleles between populations?

A gene flow

B natural selection

C adaptation

D variation

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ANSWER KEY

1. A
2. B
3. C
4. B
5. C
6. D
7. C
8. D
9. A
10. D
11. A
12. B
13. A
14. B
15. C
16. B
17. C
18. D
19. C
20. D
21. A
22. D
23. A
24. B
25. A

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