ARKANSAS BIOLOGY · UNIT 3 · 10 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 so it can be fixed.

1 **Mass extinction removes many species at once and can allow surviving groups to**



A Stop evolving

B Diversify into empty niches

C Lose all fossils

D Become identical

Understand It with Pulse | Flag a mistake

2 **Sexual selection favours traits that increase mating success even if they reduce**



A Fertility always

B Growth always

C Survival in other ways

D Migration

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3 **A cline is a gradual change in a trait across a geographic range, often matching a gradual change in**

- A Chromosome number
- B Species name
- C Fossil age
- D Environment

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4 **Hybrid offspring that are sterile, such as a mule, show that the parent species are**

- A Reproductively isolated
- B The same species
- C Identical genetically
- D Not yet evolved

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5 **Convergent evolution produces similar traits in unrelated species living in similar**

A Family groups

B Environments

C Time periods only

D Laboratories

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6 **In a population, allele A frequency is 0.7, what is the frequency of allele a if only two alleles exist**

ANSWER _____

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7 **A population has 200 individuals, 50 are homozygous recessive aa, what percent are aa**

ANSWER _____

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8 **Punctuated equilibrium proposes long periods of little change interrupted by**

- A Rapid bursts of change
- B Constant rapid change
- C No speciation
- D Only extinction

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9 **Gradualism proposes that evolution usually occurs through small changes accumulating**

- A In one generation
- B Over long periods
- C Without variation
- D Only by drift

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10 **Humans and chimpanzees share a recent common ancestor, so their DNA is expected to be**

A Completely identical

B Completely different

C Very similar but not identical

D Unrelated

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ANSWER KEY

1. B
2. C
3. D
4. A
5. B
6. 0.3
7. 25
8. A
9. B
10. C

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