ALASKA BIOLOGY · UNIT 3 · 5 QUESTIONS

Evolution and Diversity — Practice Test

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1 **Lamarck proposed that traits acquired during a lifetime could be inherited Modern genetics does not support this because acquired traits usually do not change**

- A DNA in gametes
- B Body size
- C Behavior
- D Diet

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2 **Artificial selection differs from natural selection because in artificial selection humans decide which organisms**



A Are fossils

B Reproduce

C Migrate

D Become extinct

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3 **Sharks and dolphins have similar streamlined body shapes even though they are not closely related This is an example of**

A Divergent evolution

B Genetic drift

C Convergent evolution

D Adaptive radiation

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4 **Two populations that can no longer interbreed and produce fertile offspring are considered to be**

A The same species

B The same genus only

C The same population

D Different species

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5 **The founder effect occurs when a small group starts a new population The new population is likely to have**

A Reduced genetic variation

B Increased population size at once

C No mutations

D Identical niches

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ANSWER KEY

1. A
2. B
3. C
4. D
5. A

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