ALBERTA BIOLOGY 30 · UNIT D · 5 QUESTIONS

Population & Community Dynamics — 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 of the following sets of characteristics best describes a K-selected species?**

- **A** late sexual maturity, few offspring, and prolonged parental care of young
- **B** early sexual maturity, many offspring, and little parental care
- **C** short lifespan, rapid growth, and many small offspring
- **D** reproduction many times in one season with no parental care

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2

A large grey battleship moored in a harbor, tall superstructure and gun turrets, calm blue water. Barnacles attach to the skin of a grey whale. The barnacles obtain a place to live and access to food in the water, while the whale is neither helped nor harmed. This relationship is an example of



A mutualism

B parasitism

C commensalism

D predation

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3 **The graph shows the number of voles counted in study areas of different sizes. What is the population density of the voles, in voles per km²? Record your answer as a number.**

ANSWER _____

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4 **A tapeworm lives in the intestine of a dog, where it absorbs nutrients from food eaten by the dog. The dog loses weight and becomes weak. This relationship is an example of**

A commensalism

B parasitism

C predation

D mutualism

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5 **The maximum number of individuals of a population that an environment can support indefinitely is called the**

A biotic potential

B environmental resistance

C population density

D carrying capacity

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ANSWER KEY

1. A
2. C
3. 450
4. B
5. D

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