ALBERTA BIOLOGY 20 · UNIT 2 · 10 QUESTIONS

Ecosystems and Population Change — 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 organisms is most likely an r-selected species, producing many offspring that receive little or no parental care?**

- A House mouse
- B African elephant
- C Oak tree
- D Blue whale

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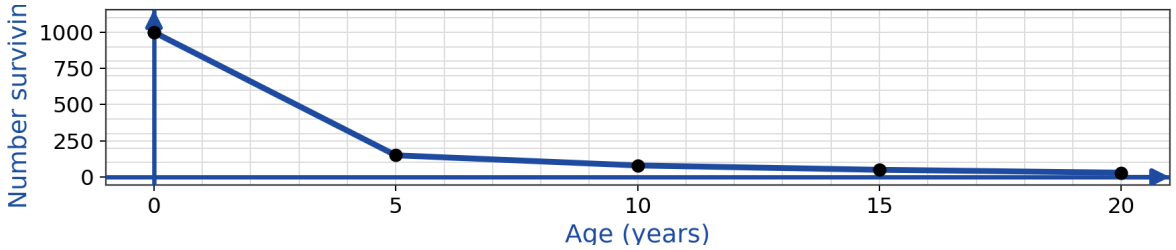
2 **The graph shows the number of oysters surviving at each age. Oysters show which type of survivorship curve?**



- **A** Type I
- **B** Type III
- **C** Type II
- **D** Type IV

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3 **A fish population follows the logistic growth model, $\Delta N = r_{max} N \left(\frac{K - N}{K}\right)$. If $r_{max} = 0.4$ per year, N = 300, and K = 1500, then the growth of the population, Δ N, in one year is ____ fish.**

ANSWER _____

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4 **Two species of Paramecium that feed on the same food are grown together in one culture. After several days, one species has disappeared completely. This result illustrates the**

A Resource partitioning principle

B Mutualism principle

C Succession principle

D Competitive exclusion principle

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5 **Nesting penguins space their nests evenly across a beach, with each pair defending the small area around its nest. This pattern of population distribution is described as**

A Clumped

B Random

C Uniform

D Irregular

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6 **The harmless scarlet king snake has red, black, and yellow bands very similar to those of the poisonous eastern coral snake, and predators avoid both snakes. The king snake is protected by**

- A Mimicry
- B Camouflage
- C Countershading
- D Warning colouration

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7 **Worldwide, the single greatest cause of the loss of biodiversity is**

- A Overhunting
- B Habitat destruction
- C Water pollution
- D Introduced species

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8 **Biologists placed 20 quadrats, each 1 m² in area, in a meadow and found an average of 8 clover plants per quadrat. The meadow has an area of 2500 m². The estimated total number of clover plants in the meadow is ____.**

ANSWER _____

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9 **Secondary succession differs from primary succession because, in secondary succession,**

A the process begins on bare rock

B the process takes much longer to complete

C no pioneer species are involved

D soil is already present when the process begins

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10

As the density of a songbird population in a forest increases, which of the following is most likely to become a stronger limiting factor?

A. A summer drought

B. A late spring frost

C. The spread of a contagious disease

D. A forest fire started by lightning

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ANSWER KEY

1. A
2. B
3. 96
4. D
5. C
6. A
7. B
8. 20000
9. D
10. C

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