CONNECTICUT 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 to let Brett know so he can fix it.

1 **Which statement about Genetic drift is correct**

- A movement of alleles between populations
- B loss of diversity after a sharp population drop
- C random change in allele frequencies
- D reduced diversity from a small founding group

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2 **Which statement about Gene flow is correct**

- A loss of diversity after a sharp population drop
- B reduced diversity from a small founding group
- C breeding chosen by humans for desired traits
- D movement of alleles between populations

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3 **Which statement about Bottleneck effect is correct**

A loss of diversity after a sharp population drop

B reduced diversity from a small founding group

C breeding chosen by humans for desired traits

D survival of bacteria despite an antibiotic

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4 **Which statement about Founder effect is correct**

A breeding chosen by humans for desired traits

B reduced diversity from a small founding group

C survival of bacteria despite an antibiotic

D the variety of life in an area

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5 **Which statement about Artificial selection is correct**

A survival of bacteria despite an antibiotic

B the variety of life in an area

C breeding chosen by humans for desired traits

D the disappearance of a species

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6 **A population of 100 bacteria doubles every hour for 3 hours. The population after 3 hours is**

ANSWER _____

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7 **A fossil layer is dated at 100 million years. A layer twice as old is**

ANSWER _____

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8 **In a population of 200, 50 individuals show a recessive trait in a simplified count. The number showing the dominant trait is**

ANSWER _____

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9 **A species splits into 2 groups, and each splits again. The number of groups is**

ANSWER _____

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10 **A population loses half its individuals, then half again, starting at 800. The population is**

ANSWER _____

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ANSWER KEY

1.	C	**5.**	C	**9.**	4
2.	D	**6.**	800	**10.**	200
3.	A	**7.**	200		
4.	B	**8.**	150		

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