Evolution, Change and Diversity — Practice Test

Nova Scotia Advanced Biology 12 • 10 questions

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 **A fossil sample starts with 96 grams of a radioactive isotope. After 3 half lives the mass left, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A population of 2000 bacteria is treated with an antibiotic that kills 99 percent. The survivors number**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A population of 6000 bacteria is treated with an antibiotic that kills 90 percent. The survivors number**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A species has a generation time of 12 years. The generations in 120 years number**

ANSWER

Understand It with Pulse | Flag a mistake

5 **A species has a generation time of 6 years. The generations in 150 years number**

ANSWER

Understand It with Pulse | Flag a mistake

6 **An area has 1200 species in total and 300 of them are birds. The percent that are birds is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **An area has 900 species in total and 450 of them are birds. The percent that are birds is**

ANSWER

Understand It with Pulse | Flag a mistake

8 **Reproductive isolation that occurs before fertilisation is called**

- A prezygotic isolation
- B postzygotic isolation
- C geographic isolation
- D artificial selection

Understand It with Pulse | Flag a mistake

9 **An analogous structure in a bat wing and an insect wing shows**

- A common ancestry
- B similar function without common ancestry
- C identical bones
- D recent divergence

Understand It with Pulse | Flag a mistake

10 **The Hardy Weinberg principle describes a population in which allele frequencies**

A always change

B double each generation

C stay constant without evolutionary forces

D are zero

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	12	**5.**	25	**9.**	B
2.	20	**6.**	25	**10.**	C
3.	600	**7.**	50		
4.	10	**8.**	A		

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