NOVA SCOTIA BIOLOGY 12 · UNIT D

Evolution, Change and Diversity — Practice Test

Nova Scotia 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 64 grams of a radioactive isotope. After 2 half lives the mass remaining, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A population of 1000 bacteria is treated with an antibiotic that kills 90 percent. The number that survive is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A population of 400 bacteria is treated with an antibiotic that kills 75 percent. The number that survive is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A species has a generation time of 4 years. The number of generations in 100 years is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A species has a generation time of 20 years. The number of generations in 100 years is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **An area has 400 species in total and 80 of them are mammals. The percent that are mammals is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **An area has 250 species in total and 50 of them are mammals. The percent that are mammals is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Convergent evolution produces similar structures in**

A unrelated species facing similar pressures

B closely related species only

C one species only

D extinct species only

Understand It with Pulse | Flag a mistake

9 **The main source of new genetic variation is**

A migration only

B mutation

C natural selection

D extinction

Understand It with Pulse | Flag a mistake

10 **A species is defined as a group of organisms that can**

A live in one place

B look alike

C interbreed and produce fertile offspring

D eat the same food

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	16	**5.**	5	**9.**	B
2.	100	**6.**	20	**10.**	C
3.	100	**7.**	20		
4.	25	**8.**	A		

© 2026 Brett Robbins. All Rights Reserved.