CONNECTICUT BIOLOGY · UNIT 4 · 10 QUESTIONS

Ecology and Ecosystems — 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 Cellular respiration is correct**

- A movement of carbon through living and nonliving things
- B movement of nitrogen through ecosystems
- C releasing energy by breaking down glucose
- D movement of water through evaporation and precipitation

Understand It with Pulse | Flag a mistake

2 **Which statement about Carbon cycle is correct**

- A movement of nitrogen through ecosystems
- B movement of water through evaporation and precipitation
- C the largest population an environment can support
- D movement of carbon through living and nonliving things

Understand It with Pulse | Flag a mistake

3 **Which statement about Nitrogen cycle is correct**

A movement of nitrogen through ecosystems

B movement of water through evaporation and precipitation

C the largest population an environment can support

D a factor restricting population growth

Understand It with Pulse | Flag a mistake

4 **Which statement about Water cycle is correct**

A the largest population an environment can support

B movement of water through evaporation and precipitation

C a factor restricting population growth

D struggle for the same limited resource

Understand It with Pulse | Flag a mistake

5 **Which statement about Carrying capacity is correct**

A a factor restricting population growth

B struggle for the same limited resource

C the largest population an environment can support

D one organism eating another

Understand It with Pulse | Flag a mistake

6 **A food chain has 1000 units of energy at the producer level. About 10 percent transfers to the next level. The energy at the next level is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A population grows from 50 to 200 in a simplified model. The factor of increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A lake supports 500 fish at carrying capacity. Half that number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Ten percent of 2000 units of energy transfers to herbivores. The energy transferred is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A population of 40 doubles twice. The population is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	C	**9.**	200
2.	D	**6.**	100	**10.**	160
3.	A	**7.**	4		
4.	B	**8.**	250		

© 2026 Brett Robbins. All Rights Reserved.