PRINCE EDWARD ISLAND ENVIRONMENTAL SCIENCE 12 · UNIT A

Ecological Principles — Practice Test

Prince Edward Island Environmental Science 12 • 25 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 **In a food chain, 10000 kilojoules are available at the producer level. At 10 percent transfer, the primary consumer level receives this many kilojoules**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **In a food chain, 1000 kilojoules are available at the primary consumer level. At 10 percent transfer, the secondary consumer level receives this many kilojoules**

ANSWER _____

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3 **A population of 400 grows by 25 percent in one year. The new population is**

ANSWER _____

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4

A producer in an ecosystem

- A makes its own food by photosynthesis
- B eats other organisms
- C decomposes dead matter only
- D is always a plant eater

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5

A primary consumer

- A eats primary consumers
- B makes its own food
- C decomposes dead matter only
- D eats producers

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6

A decomposer

A eats herbivores only

B makes food by photosynthesis

C breaks down dead organic matter

D eats living plants only

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7

A niche describes

A its food only

B the role of a species in its ecosystem

C its habitat only

D its population size

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8

A habitat is

A the place where an organism lives

B its role in the ecosystem

C its food web

D its population size

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9

A food web shows

A one food chain only

B energy loss only

C population sizes only

D many linked food chains

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10 **Energy flow in an ecosystem is**

A from consumers to producers

B unlimited

C one way, from producers upward

D cyclical like nutrients

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11 **Nutrient cycling differs from energy flow because nutrients are**

A created by consumers

B recycled

C lost as heat

D one way only

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12 **Competition occurs when organisms use the same**

A limited resource

B habitat only

C predator

D season

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13 **A predator prey relationship benefits the predator and**

A benefits the prey

B harms both always

C helps both always

D harms the prey individual

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14 **In a food chain, 20000 kilojoules are available at the producer level. At 10 percent transfer, the tertiary consumer level receives this many kilojoules**

ANSWER _____

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15 **A meadow has 300 plants and 30 herbivores. The herbivore to plant ratio as a percent is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A population of 800 falls by 25 percent. The new population is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A food web has 12 producers and 8 consumers. The total species in the web, excluding decomposers, is**

ANSWER _____

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18 **If 40 percent of 500 seeds germinate, the seedling count is**

ANSWER _____

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19 **A lake has 1000 fish. If 10 percent are predators, the predator count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **In a food chain, 800 kilojoules reach the secondary consumer level. At 10 percent transfer, the tertiary level receives this many kilojoules**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A population doubles from 150 to this many individuals**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **In a food chain, 6000 kilojoules are available at the producer level. At 10 percent transfer, the tertiary consumer level receives this many kilojoules**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A population of 900 grows by 10 percent in one year. The new population is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A meadow has 500 plants and 50 herbivores. The herbivore to plant ratio as a percent is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **If 60 percent of 300 seeds germinate, the seedling count is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 1000
2. 100
3. 500
4. A
5. D
6. C
7. B
8. A
9. D
10. C
11. B
12. A
13. D
14. 20
15. 10
16. 600
17. 20
18. 200
19. 100
20. 80
21. 300
22. 6
23. 990
24. 10
25. 180

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