NOVA SCOTIA BIOLOGY 11 · UNIT D · 25 QUESTIONS

Interactions among Living Things — 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 **Producers capture 1000 units of energy. About 10 percent passes to herbivores. The energy passed, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A field holds 600 units of plant energy. About 10 percent reaches herbivores. The energy, in units, is**

ANSWER _____

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3 **Herbivores hold 200 units of energy. About 10 percent passes to carnivores. The energy passed, in units, is**

ANSWER _____

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4 **A food chain starts with a**

- A producer
- B carnivore
- C decomposer
- D herbivore only

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5 **A herbivore eats**

- A animals only
- B plants
- C decomposers only
- D rocks

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6

A food web shows

A one chain only

B a single species

C many connected food chains

D a habitat map only

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7

Decomposers return nutrients to the soil by

A photosynthesis

B hunting prey

C making seeds

D breaking down dead matter

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8 **Mutualism is a relationship where**

A both species benefit

B one benefits and one is harmed

C neither is affected

D both are harmed

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9 **Parasitism is a relationship where one species benefits and the other is**

A helped

B harmed

C unaffected

D eaten fully at once

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10 **Carrying capacity is the largest population an environment can**

A count in one day

B ignore

C support over time

D move away

Understand It with Pulse | Flag a mistake

11 **Competition happens when organisms need the same**

A season

B colour

C sound

D limited resource

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12 **Succession is the gradual change in a community**

A over time

B in one second

C only in water

D only after fire

Understand It with Pulse | Flag a mistake

13 **A predator is an organism that**

A makes its own food

B hunts and eats other organisms

C decomposes matter

D pollinates flowers

Understand It with Pulse | Flag a mistake

14 **A population grows fastest when resources are**

A absent

B frozen

C abundant

D limited strongly

Understand It with Pulse | Flag a mistake

15 **A trophic level is a feeding position in a**

A habitat map

B cell

C kingdom

D food chain

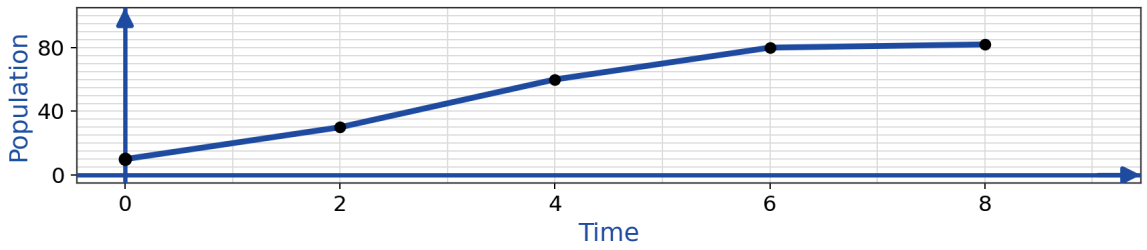
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16 **Energy in a food pyramid decreases at higher levels mainly because energy is**

- **A** lost as heat
- **B** created by carnivores
- **C** stored forever
- **D** reflected only

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17 **The graph shows a population rising then levelling off. This shape shows**



- **A** extinction at once
- **B** carrying capacity reached
- **C** no births
- **D** no deaths

Understand It with Pulse | Flag a mistake

18 **An invasive species can harm an ecosystem by**

A adding nutrients only

B increasing biodiversity always

C outcompeting native species

D removing predators only

Understand It with Pulse | Flag a mistake

19 **A keystone species has an effect that is**

A zero

B only on plants

C only in winter

D large compared with its abundance

Understand It with Pulse | Flag a mistake

20 **Biomagnification means a pollutant**

A increases in concentration up a food chain

B disappears at once

C stays only in water

D helps producers

Understand It with Pulse | Flag a mistake

21 **A producer in a pond is most likely**

A a fish

B algae

C a frog

D a heron

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22 **Commensalism is a relationship where one species benefits and the other is**

A unaffected

B harmed

C helped equally

D eaten

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23 **A niche is the role of a species including its**

A colour only

B food, habitat and behaviour

C size only

D name only

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24 **Abiotic factors in an ecosystem include**

A plants

B animals

C temperature and water

D bacteria

Understand It with Pulse | Flag a mistake

25 **Biotic factors in an ecosystem include**

A rocks

B sunlight

C soil minerals

D living organisms

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 100
2. 60
3. 20
4. A
5. B
6. C
7. D
8. A
9. B
10. C
11. D
12. A
13. B
14. C
15. D
16. A
17. B
18. C
19. D
20. A
21. B
22. A
23. B
24. C
25. D

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