Plants, Animals, and Biodiversity within 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 **A population of 100 deer grows by 20 in a year. The percent growth for the year is**

ANSWER _____

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2 **A population of 200 deer grows by 50 in a year. The percent growth for the year is**

ANSWER _____

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3 **A population of 150 deer grows by 30 in a year. The percent growth for the year is**

ANSWER _____

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4 **Producers capture 1000 units of energy. About 10 percent passes to herbivores and 10 percent of that to carnivores. Energy reaching carnivores, in units, is**

ANSWER _____

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5 **A food chain starts with a**

A consumer

B producer

C decomposer

D predator

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6

Decomposers return nutrients to the soil by

A eating live prey

B breaking down dead material

C photosynthesis

D hunting

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7

Carrying capacity is the

A smallest population possible

B birth rate only

C largest population an environment can support long term

D death rate only

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8 **Biodiversity means the**

A number of predators only

B size of a forest

C age of a species

D variety of life in an area

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9 **A keystone species has an effect on its ecosystem that is**

A larger than its numbers suggest

B smaller than its numbers suggest

C limited to its own species

D only on producers

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10 **Competition occurs when organisms need the same**

A predator

B limited resource

C habitat only

D season

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11 **A parasite benefits while its host is**

A helped

B unaffected

C harmed

D killed instantly always

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12 **Mutualism is a relationship where**

A one benefits and one is harmed

B neither benefits

C one benefits and one is unaffected

D both species benefit

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13 **Succession is the gradual change in species in an area over**

A time

B one day

C one season only

D a single generation

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14 **Plants bend toward light. This response is called**

A geotropism

B phototropism

C thigmotropism

D chemotropism

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15 **Roots grow downward in response to gravity. This is**

A phototropism

B thigmotropism

C geotropism

D hydrotropism

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16 **An invasive species can harm an ecosystem because it may have**

A no food there

B no habitat there

C no reproduction there

D no natural predators there

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17 **The loss of habitat is a leading cause of**

A declining biodiversity

B increasing biodiversity

C stable populations

D new species only

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18 **A food web shows**

A one food chain only

B many connected food chains

C only producers

D only predators

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19 **In an energy pyramid, the level with the most energy is the**

A herbivores

B carnivores

C producers

D top predators

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20 **A pond has 5 species of fish, 3 species of frogs, and 2 species of plants. The total number of species counted is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Producers capture 5000 units of energy. About 10 percent passes to the next level. Energy at that level, in units, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A population of 500 deer grows by 75 in a year. The percent growth for the year is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A population of 600 deer grows by 120 in a year. The percent growth for the year is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A pond has 7 species of fish, 4 species of frogs, and 3 species of plants. The total number of species counted is**

ANSWER _____

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25 **Producers capture 8000 units of energy. About 10 percent passes to the next level. Energy at that level, in units, is**

ANSWER _____

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ANSWER KEY

1. 20
2. 25
3. 20
4. 10
5. B
6. B
7. C
8. D
9. A
10. B
11. C
12. D
13. A
14. B
15. C
16. D
17. A
18. B
19. C
20. 10
21. 500
22. 15
23. 20
24. 14
25. 800

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