BASIC ECOLOGY - PRACTICE TEST | NEW BRUNSWICK ENVIRONMENTAL SCIENCE 120 · UNIT A · 25 QUESTIONS

Basic Ecology — 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 10000 kilocalories. At 10 percent transfer, primary consumers gain kilocalories of**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Primary consumers gain 1000 kilocalories. At 10 percent transfer, secondary consumers gain kilocalories of**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Secondary consumers gain 100 kilocalories. At 10 percent transfer, tertiary consumers gain kilocalories of**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A food chain has 4 trophic levels starting with 20000 kilocalories. The energy at the fourth level in kilocalories is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A population of 200 grows by 20 births and loses 10 deaths in a year. The net change is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A population of 500 has 50 births and 30 deaths. The final population is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A habitat can support 1000 deer. The population is 800. The remaining capacity is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A pond has 120 fish and 30 are removed. The remaining fish are**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A quadrat sample finds 8 plants in 1 m². In 10 square metres the estimated plants are**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A mark recapture study marks 20 animals and later captures 40 with 10 marked. The estimated population is**

ANSWER _____

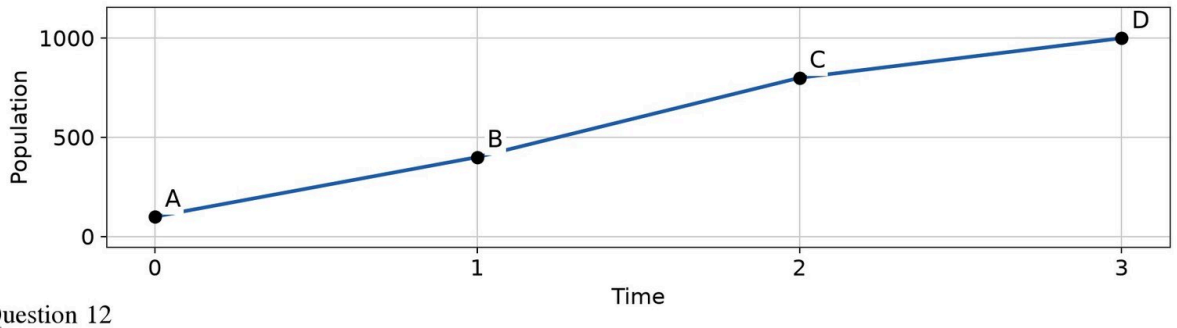
Understand It with Pulse | Flag a mistake

11 **A community has 5 species with counts 10, 20, 30, 40 and 50. The total individuals are**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **The graph shows a population rising to a carrying capacity of 1000. The carrying capacity is**



Question 12

The graph shows a population rising to a carrying capacity of 1000. The carrying capacity is

ANSWER

Understand It with Pulse | Flag a mistake

13 **Producers in most ecosystems obtain energy from**

A consumers

B sunlight

C decomposers

D soil only

Understand It with Pulse | Flag a mistake

14 **Decomposers recycle nutrients by breaking down**

A living plants

B dead matter

C minerals only

D water

Understand It with Pulse | Flag a mistake

15 **A food web is more realistic than a food chain because it shows**

A one link

B only producers

C many feeding links

D only predators

Understand It with Pulse | Flag a mistake

16 **The trophic level with the most energy is the**

A primary consumers

B secondary consumers

C top predators

D producers

Understand It with Pulse | Flag a mistake

17 **Biotic factors are the living components of an**

A ecosystem

B habitat only

C community only

D population only

Understand It with Pulse | Flag a mistake

18 **Abiotic factors include temperature, water and**

A predators

B light

C plants

D bacteria

Understand It with Pulse | Flag a mistake

19 **A niche is the role of a species in its**

A habitat only

B community only

C ecosystem

D population only

Understand It with Pulse | Flag a mistake

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

- A unlimited resource
- B habitat
- C predator
- D limited resource

Understand It with Pulse | Flag a mistake

21 **Predation is an interaction where one organism eats**

- A another
- B itself
- C a plant only
- D a decomposer

Understand It with Pulse | Flag a mistake

22 **Mutualism benefits**

A one species only

B both species

C neither species

D the predator only

Understand It with Pulse | Flag a mistake

23 **Parasitism benefits one species and harms the**

A predator

B producer

C host

D decomposer

Understand It with Pulse | Flag a mistake

24 **Succession after a disturbance on existing soil is**

A primary succession

B climax only

C pioneer only

D secondary succession

Understand It with Pulse | Flag a mistake

25 **A climax community is relatively**

A stable

B unstable

C empty

D new

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	1000	**10.**	80	**19.**	C
2.	100	**11.**	150	**20.**	D
3.	10	**12.**	1000	**21.**	A
4.	20	**13.**	B	**22.**	B
5.	10	**14.**	B	**23.**	C
6.	520	**15.**	C	**24.**	D
7.	200	**16.**	D	**25.**	A
8.	90	**17.**	A		
9.	80	**18.**	B		

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