QUEBEC SCIENCE AND THE ENVIRONMENT, SECONDARY IV · UNIT B

Living World and the Environment — Practice Test

Quebec Science and the Environment, Secondary IV • 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 **A contaminant is measured at 240 milligrams per kilogram in fish and 12 milligrams per kilogram in the surrounding water. The bioconcentration factor is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A contaminant solution of concentration 100 milligrams per litre and volume 2 litres is diluted to 10 litres. Its new concentration, in milligrams per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A contaminant starts at 2 milligrams per kilogram in algae and multiplies by 10 at each of two steps up a food chain. Its concentration at the top level, in milligrams per kilogram, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A pond holds 2000 kilograms of water with a contaminant concentration of 30 parts per million. The mass of contaminant, in milligrams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A stream sample has a contaminant concentration of 3 grams per litre and a volume of 60 litres. The mass of contaminant, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A toxicity threshold is 6 milligrams per kilogram of body mass. For an animal of mass 20 kilograms, the threshold dose, in milligrams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A chronic pollutant affects ecosystems over a**

A single day only

B single hour only

C single minute only

D long period

Understand It with Pulse | Flag a mistake

8 **A contaminant is a substance that**

A pollutes an environment

B purifies water

C feeds plants

D cools the air

Understand It with Pulse | Flag a mistake

9 **A contaminant that does not break down quickly in an ecosystem is likely to**

A accumulate

B disappear at once

C turn into oxygen

D cool the water

Understand It with Pulse | Flag a mistake

10 **A food web shows how energy and substances move through**

A rock layers

B wind patterns

C soil horizons

D feeding relationships

Understand It with Pulse | Flag a mistake

11 **An ecosystem is a community of organisms together with its**

A weather station

B soil sample

C abiotic environment

D water filter

Understand It with Pulse | Flag a mistake

12 **Bioaccumulation is the increase of a substance**

A within one cell only

B in soil only

C up a food chain

D in rain only

Understand It with Pulse | Flag a mistake

13 **Bioaccumulation is usually greatest in organisms at the**

A bottom of a food chain

B top of a food chain

C surface of a lake

D edge of a forest

Understand It with Pulse | Flag a mistake

14 **A contaminant is measured at 360 milligrams per kilogram in fish and 18 milligrams per kilogram in the surrounding water. The bioconcentration factor is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A contaminant solution of concentration 80 milligrams per litre and volume 5 litres is diluted to 20 litres. Its new concentration, in milligrams per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A contaminant starts at 3 milligrams per kilogram in algae and multiplies by 10 at each of two steps up a food chain. Its concentration at the top level, in milligrams per kilogram, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A pond holds 3000 kilograms of water with a contaminant concentration of 50 parts per million. The mass of contaminant, in milligrams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A stream sample has a contaminant concentration of 4 grams per litre and a volume of 50 litres. The mass of contaminant, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A toxicity threshold is 3 milligrams per kilogram of body mass. For an animal of mass 40 kilograms, the threshold dose, in milligrams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A contaminant is measured at 180 milligrams per kilogram in fish and 9 milligrams per kilogram in the surrounding water. The bioconcentration factor is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A contaminant solution of concentration 120 milligrams per litre and volume 5 litres is diluted to 20 litres. Its new concentration, in milligrams per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A contaminant starts at 5 milligrams per kilogram in algae and multiplies by 10 at each of two steps up a food chain. Its concentration at the top level, in milligrams per kilogram, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A pond holds 4000 kilograms of water with a contaminant concentration of 20 parts per million. The mass of contaminant, in milligrams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A stream sample has a contaminant concentration of 2 grams per litre and a volume of 90 litres. The mass of contaminant, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A toxicity threshold is 8 milligrams per kilogram of body mass. For an animal of mass 15 kilograms, the threshold dose, in milligrams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 20
2. 20
3. 200
4. 60000
5. 180
6. 120
7. D
8. A
9. A
10. D
11. C
12. C
13. B
14. 20
15. 20
16. 300
17. 150000
18. 200
19. 120
20. 20
21. 30
22. 500
23. 80000
24. 180
25. 120

© 2026 Brett Robbins. All Rights Reserved.