QUEBEC SCIENCE AND THE ENVIRONMENT, SECONDARY IV · UNIT C

Earth and Space 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 lake has a surface area of 250 m² and a mean depth of 2 metres. Its volume, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A soil sample of mass 400 kilograms contains 12 kilograms of contaminated material. The contaminated share, in percent, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A wind system moves at 15 kilometres per hour for 4 hours. The distance covered, in kilometres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Carbon dioxide in air rises from 300 parts per million to 360 parts per million. The percent increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **During an algal bloom the dissolved oxygen in a pond falls from 10 milligrams per litre to 6 milligrams per litre. The drop, in milligrams per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A soil profile shows the layers of soil called**

A horizons

B minerals

C glaciers

D biomes

Understand It with Pulse | Flag a mistake

7 **A water body becomes unsafe for drinking when pollutants degrade water quality to such an extent that its**

A temperature falls

B balance is permanently changed

C colour changes

D depth increases

Understand It with Pulse | Flag a mistake

8 **Acid rain gradually reduces the buffering capacity of soil and can release**

A oxygen only

B nitrogen gas only

C nutrients or heavy metals

D clean water only

Understand It with Pulse | Flag a mistake

9 **Atmospheric circulation moves contaminants around the globe through**

A soil layers

B ocean trenches

C prevailing winds

D rock fractures

Understand It with Pulse | Flag a mistake

10 **Eutrophication is intensified by excessive nutrients, especially compounds of**

A carbon and helium

B sodium and argon

C iron and neon

D nitrogen and phosphorus

Understand It with Pulse | Flag a mistake

11 **Eutrophication is linked to agricultural runoff, household wastewater and**

A wind energy

B solar energy

C industrial activity

D tidal energy

Understand It with Pulse | Flag a mistake

12 **In eutrophication, excess nutrients accelerate the growth of**

A algae and other plants

B fish only

C rocks only

D glaciers only

Understand It with Pulse | Flag a mistake

13 **Increased algae growth combined with warm water causes dissolved oxygen to**

A increase

B decrease

C stay the same

D disappear from air

Understand It with Pulse | Flag a mistake

14 **Lakes, waterways and wetlands are dynamic systems whose balance can be permanently changed by**

A large amounts of toxic substances

B small amounts of rain

C clear skies

D cold nights

Understand It with Pulse | Flag a mistake

15 **Measuring the buffering capacity of soil gives an indicator of soil**

- A temperature
- B colour
- C depth
- D fertility

Understand It with Pulse | Flag a mistake

16 **A lake has a surface area of 180 m² and a mean depth of 3 metres. Its volume, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A soil sample of mass 300 kilograms contains 18 kilograms of contaminated material. The contaminated share, in percent, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A wind system moves at 20 kilometres per hour for 3 hours. The distance covered, in kilometres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Carbon dioxide in air rises from 280 parts per million to 336 parts per million. The percent increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **During an algal bloom the dissolved oxygen in a pond falls from 12 milligrams per litre to 7 milligrams per litre. The drop, in milligrams per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A lake has a surface area of 300 m² and a mean depth of 2 metres. Its volume, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A soil sample of mass 200 kilograms contains 14 kilograms of contaminated material. The contaminated share, in percent, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A wind system moves at 25 kilometres per hour for 2 hours. The distance covered, in kilometres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Carbon dioxide in air rises from 300 parts per million to 330 parts per million. The percent increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **During an algal bloom the dissolved oxygen in a pond falls from 9 milligrams per litre to 5 milligrams per litre. The drop, in milligrams per litre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	500	**10.**	D	**19.**	20
2.	3	**11.**	C	**20.**	5
3.	60	**12.**	A	**21.**	600
4.	20	**13.**	B	**22.**	7
5.	4	**14.**	A	**23.**	50
6.	A	**15.**	D	**24.**	10
7.	B	**16.**	540	**25.**	4
8.	C	**17.**	6		
9.	C	**18.**	60		

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