Earth and Space and the Environment — Practice Test

Quebec Environmental Science and Technology, 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 catchment has an area of 250 m² and receives 2 metres of rain. The volume received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A forest absorbs 750 tonnes of carbon in a year and releases 660 tonnes. Its net carbon uptake, in tonnes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A glacier terminus retreats 180 metres in 6 years. Its mean retreat rate, in metres per year, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A tidal station records 2 high tides each day. The number of high tides in 14 days is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An estuary sample has a mass of 6 kilograms and a salinity of 30 grams per kilogram. The dissolved salt, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A catchment area is a territory bounded by crest lines into which flow**

A wind only

B clouds only

C ground and surface water

D lava only

Understand It with Pulse | Flag a mistake

7 **An anticyclone is a**

A low pressure system

B high pressure system

C warm ocean current

D cold ocean current

Understand It with Pulse | Flag a mistake

8 **A soil profile shows horizons that differ in structure and**

A composition

B temperature only

C colour only

D age only

Understand It with Pulse | Flag a mistake

9 **Atmospheric nitrogen can be assimilated by plants only with the help of certain**

A bacteria

B fungi only

C algae only

D insects only

Understand It with Pulse | Flag a mistake

10 **Eutrophication in water is worsened by excess nitrogen and phosphorus from runoff and**

A sunlight

B wind

C wastewater

D tides

Understand It with Pulse | Flag a mistake

11 **Fossil fuels and radioactive materials used in nuclear plants are**

A renewable energy sources

B unlimited energy sources

C clean energy sources

D nonrenewable energy sources

Understand It with Pulse | Flag a mistake

12 **In a terrestrial biome the animals present depend mainly on the**

A plants there

B rocks there

C clouds there

D wind there

Understand It with Pulse | Flag a mistake

13 **Marine biomes sit at the bottom of an immense food pyramid, so their health is**

A unimportant for humans

B unknown to humans

C harmful to humans

D critical for humans

Understand It with Pulse | Flag a mistake

14 **Minerals in the lithosphere include metals, industrial minerals and**

A fossil fuels only

B construction materials

C water only

D air only

Understand It with Pulse | Flag a mistake

15 **Oceanic circulation includes surface currents driven by wind and deep currents driven by differences in**

- **A** colour and depth
- **B** age and size
- **C** speed and sound
- **D** temperature and salinity

Understand It with Pulse | Flag a mistake

16 **A catchment has an area of 400 m² and receives 3 metres of rain. The volume received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A forest absorbs 850 tonnes of carbon in a year and releases 760 tonnes. Its net carbon uptake, in tonnes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A glacier terminus retreats 200 metres in 5 years. Its mean retreat rate, in metres per year, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A tidal station records 2 high tides each day. The number of high tides in 21 days is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **An estuary sample has a mass of 8 kilograms and a salinity of 25 grams per kilogram. The dissolved salt, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A catchment has an area of 150 m² and receives 4 metres of rain. The volume received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A forest absorbs 650 tonnes of carbon in a year and releases 580 tonnes. Its net carbon uptake, in tonnes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A glacier terminus retreats 120 metres in 4 years. Its mean retreat rate, in metres per year, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A tidal station records 2 high tides each day. The number of high tides in 10 days is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **An estuary sample has a mass of 4 kilograms and a salinity of 35 grams per kilogram. The dissolved salt, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	500	**10.**	C	**19.**	42
2.	90	**11.**	D	**20.**	200
3.	30	**12.**	A	**21.**	600
4.	28	**13.**	D	**22.**	70
5.	180	**14.**	B	**23.**	30
6.	C	**15.**	D	**24.**	20
7.	B	**16.**	1200	**25.**	140
8.	A	**17.**	90		
9.	A	**18.**	40		

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