QUEBEC SCIENCE AND TECHNOLOGY, SECONDARY IV · UNIT A

Earth and Space — Practice Test

Quebec 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 area 200 m² and receives 2 metres of rain. The volume of water received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **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

3 **A seawater sample has mass 2 kilograms and salinity 35 grams per kilogram. The mass of dissolved salt in the sample, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **In one year a forest absorbs 500 tonnes of carbon and releases 420 tonnes. Its net carbon uptake, in tonnes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A catchment divide is the high ground that separates two**

A oceans

B continents

C climates

D catchment areas

Understand It with Pulse | Flag a mistake

6 **A coastal station records 2 high tides each day. The number of high tides in 7 days is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A glacier is a large mass of moving**

- A rock
- B water
- C ice
- D sand

Understand It with Pulse | Flag a mistake

8 **A glacier loses 45 metres of length in 3 years and then 60 metres in the next 3 years. Its total loss, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A high pressure weather system usually brings**

- A clear skies
- B heavy rain
- C tornadoes
- D blizzards

Understand It with Pulse | Flag a mistake

10 **A lake catchment of area 500 m² receives 2 metres of rain. The water volume received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A low pressure weather system with air spiralling inward is a**

A anticyclone

B glacier

C monsoon

D cyclone

Understand It with Pulse | Flag a mistake

12 **A renewable energy resource is**

A coal

B oil

C natural gas

D wind

Understand It with Pulse | Flag a mistake

13 **A river catchment receives 900 m³ of rain and loses 300 m³ by evaporation. The remaining volume, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A weather station records 3 cyclones in 6 months. At the same rate, the number in 12 months is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **An anticyclone covers 240 kilometres in 4 days. Its mean movement, in kilometres per day, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **An energy resource formed from ancient plant remains is**

A coal

B wind

C sunlight

D geothermal heat

Understand It with Pulse | Flag a mistake

17 **Melting pack ice in polar seas mainly affects global**

A soil fertility

B volcanoes

C sea level and habitats

D day length

Understand It with Pulse | Flag a mistake

18 **A catchment has area 150 m² and receives 2 metres of rain. The volume of water received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A glacier terminus retreats 150 metres in 5 years. Its mean retreat rate, in metres per year, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A seawater sample has mass 4 kilograms and salinity 35 grams per kilogram. The mass of dissolved salt in the sample, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **In one year a forest absorbs 640 tonnes of carbon and releases 580 tonnes. Its net carbon uptake, in tonnes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A catchment has area 300 m² and receives 1 metres of rain. The volume of water received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A glacier terminus retreats 90 metres in 3 years. Its mean retreat rate, in metres per year, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A seawater sample has mass 5 kilograms and salinity 35 grams per kilogram. The mass of dissolved salt in the sample, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **In one year a forest absorbs 700 tonnes of carbon and releases 610 tonnes. Its net carbon uptake, in tonnes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 400
2. 30
3. 70
4. 80
5. D
6. 14
7. C
8. 105
9. A
10. 1000
11. D
12. D
13. 600
14. 6
15. 60
16. A
17. C
18. 300
19. 30
20. 140
21. 60
22. 300
23. 30
24. 175
25. 90

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