QUEBEC APPLIED SCIENCE AND TECHNOLOGY, SECONDARY IV · UNIT A

# Earth and Space — Practice Test

**Quebec Applied 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 of area 250 m² receives 2 metres of rain. The water volume received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A glacier terminus retreats 100 metres in 5 years. Its mean retreat rate, in metres per year, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A sample of seawater of mass 6 kilograms has salinity 35 grams per kilogram. The dissolved salt in the sample, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A woodland absorbs 800 tonnes of carbon in a year and releases 650 tonnes. Its net uptake, in tonnes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A catchment area is drained by a river and its**

A glaciers only

B oceans only

C tributaries

D clouds only

Understand It with Pulse | Flag a mistake

6 **A catchment of area 600 m² receives 1 metre of rain. The water volume received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A catchment receives 1200 m³ of rain and 400 m³ run off. The water retained, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **An anticyclone is a**

A high pressure system

B low pressure system

C glacier

D volcano

Understand It with Pulse | Flag a mistake

9 **A forest absorbs 900 tonnes of carbon and releases 720 tonnes in one year. Its net uptake, in tonnes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A glacier advances 30 metres in one year and retreats 50 metres the next year. Its net change over the two years, in metres of retreat, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A glacier forms where snowfall exceeds melting over many**

A years

B days

C hours

D minutes

Understand It with Pulse | Flag a mistake

12 **A region has 5 anticyclones in 10 weeks. At the same rate, in 20 weeks it has**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A seawater sample of mass 7 kilograms has salinity 35 grams per kilogram. Its dissolved salt, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A tidal station records 2 high tides per day. In 14 days it records, in high tides**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A weather map symbol with H marks a centre of**

A low pressure

B rain

C high pressure

D snow

Understand It with Pulse | Flag a mistake

16 **A weather map symbol with L marks a centre of**

A high pressure

B clear skies

C calm air

D low pressure

Understand It with Pulse | Flag a mistake

17 **An energy resource that can be replaced naturally is called**

A fossil

B nuclear

C renewable

D chemical

Understand It with Pulse | Flag a mistake

18 **An ocean current moves 360 kilometres in 6 days. Its mean speed, in kilometres per day, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A catchment of area 400 m² receives 1 metres of rain. The water volume received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A glacier terminus retreats 140 metres in 7 years. Its mean retreat rate, in metres per year, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A sample of seawater of mass 2 kilograms has salinity 36 grams per kilogram. The dissolved salt in the sample, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A woodland absorbs 450 tonnes of carbon in a year and releases 380 tonnes. Its net uptake, in tonnes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A catchment of area 120 m² receives 3 metres of rain. The water volume received, in m³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A glacier terminus retreats 80 metres in 4 years. Its mean retreat rate, in metres per year, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A sample of seawater of mass 8 kilograms has salinity 35 grams per kilogram. The dissolved salt in the sample, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

# ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | 500 | **10.** | 20 | **19.** | 400 |
| **2.** | 20 | **11.** | A | **20.** | 20 |
| **3.** | 210 | **12.** | 10 | **21.** | 72 |
| **4.** | 150 | **13.** | 245 | **22.** | 70 |
| **5.** | C | **14.** | 28 | **23.** | 360 |
| **6.** | 600 | **15.** | C | **24.** | 20 |
| **7.** | 800 | **16.** | D | **25.** | 280 |
| **8.** | A | **17.** | C | | |
| **9.** | 180 | **18.** | 60 | | |

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