EARTH SYSTEMS 3209 · NEWFOUNDLAND AND LABRADOR

Earth Systems 3209

Practice Test

Unit B: The Hydrosphere and Oceans

25 Questions

Original practice test based on the Newfoundland and Labrador curriculum. Work through each question, then check your answers at the end.

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.

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Question 1

The hydrosphere includes all water on Earth, including oceans, lakes, rivers, glaciers and

A) groundwater

B) atmosphere only

C) magma

D) soil only

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Question 2

Most of Earth surface water is found in the

A) oceans

B) lakes

C) rivers

D) glaciers only

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Question 3

Ocean water is salty mainly because rivers carry dissolved minerals from

A) volcanoes only

B) rain only

C) weathered rock

D) sea life only

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Question 4

Salinity is the amount of dissolved salts in a given mass of

A) rock

B) air

C) ice

D) water

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Question 5

Surface ocean currents are driven mainly by

A) wind

B) tides only

C) gravity only

D) Earth rotation only

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Question 6

Deep ocean currents are driven mainly by differences in water density due to temperature and

A) wind

B) salinity

C) tides

D) pressure only

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Question 7

The Coriolis effect deflects moving water and air to the right in the Northern Hemisphere because Earth

A) revolves

B) tilts

C) rotates

D) wobbles

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Question 8

Tides are caused mainly by the gravitational pull of the Moon and, to a lesser extent, the

A) planets

B) stars

C) Earth core

D) Sun

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Question 9

A spring tide occurs when Sun, Moon and Earth are aligned, giving a larger tidal

A) range

B) period

C) speed

D) temperature

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Question 10

A neap tide occurs when Sun and Moon are at right angles relative to Earth, giving a smaller tidal

A) period

B) range

C) speed

D) temperature

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Question 11

Upwelling brings cold nutrient rich water from deep water to the

A) seafloor

B) shore only

C) surface

D) atmosphere

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Question 12

The continental shelf is the gently sloping submerged edge of a

A) ocean basin

B) trench

C) ridge

D) continent

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Question 13

An abyssal plain is a flat area of the deep ocean

A) floor

B) surface

C) shore

D) shelf

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Question 14

Groundwater is stored in aquifers, which are rock layers that can hold and transmit

A) oil only

B) water

C) gas only

D) salt only

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Question 15

The water table is the upper surface of the zone where rock pores are filled with

A) air

B) oil

C) water

D) ice

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Question 16

Ocean water has salinity 35 grams per kilogram. In 10 kilograms of ocean water, the salt mass in grams is

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Question 17

Ocean water has salinity 35 grams per kilogram. In 2 kilograms of ocean water, the salt mass in grams is

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Question 18

A river flows at 20 m^3 per second for 10 seconds. The volume in m^3 is

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Question 19

A tide rises 4 metres and falls 4 metres. The tidal range in metres is

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Question 20

A wave travels 300 metres in 20 seconds. Its speed in metres per second is

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Question 21

A lake holds 5000 m^3 and loses 500 m^3. The volume remaining in m^3 is

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Question 22

Rainfall of 20 millimetres falls on 1 m^2. The volume in litres is

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Question 23

An aquifer holds 8000 litres and 2000 litres are pumped out. The volume remaining in litres is

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Question 24

A current moves 3 kilometres per hour for 8 hours. The distance in kilometres is

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Question 25

A glacier moves 10 metres per year. In 50 years, the distance in metres is

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ANSWER KEY

1. A
2. A
3. C
4. D
5. A
6. B
7. C
8. D
9. A
10. B
11. C
12. D
13. A
14. B
15. C
16. 350
17. 70
18. 200
19. 8
20. 15
21. 4500
22. 20
23. 6000
24. 24
25. 500

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