Final Exam — Practice Test

Newfoundland and Labrador Earth Systems 3209 • 50 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 **Metamorphic rock forms when existing rock is changed by heat and**

- A water only
- B wind only
- C pressure
- D erosion only

Understand It with Pulse | Flag a mistake

2 **Most of Earth surface water is found in the**

A oceans

B lakes

C rivers

D glaciers only

Understand It with Pulse | Flag a mistake

3 **Most of the mass of the atmosphere is in the lowest layer, the**

A troposphere

B stratosphere

C mesosphere

D thermosphere

Understand It with Pulse | Flag a mistake

4 **Photosynthesis by plants removes carbon dioxide from the atmosphere and releases**

A nitrogen

B hydrogen

C oxygen

D methane

Understand It with Pulse | Flag a mistake

5 **The rock cycle shows that any rock type can change into another rock type over**

A geologic time

B one day

C one season

D a human lifetime only

Understand It with Pulse | Flag a mistake

6 **Surface ocean currents are driven mainly by**

A wind

B tides only

C gravity only

D Earth rotation only

Understand It with Pulse | Flag a mistake

7 **Wind blows from areas of high pressure toward areas of**

A high temperature

B low pressure

C low temperature only

D high humidity only

Understand It with Pulse | Flag a mistake

8 **Energy is lost at each trophic level mainly as**

A light

B heat

C mass

D water

Understand It with Pulse | Flag a mistake

9 **Sandstone is an example of a sedimentary rock formed from**

A cooled magma

B changed marble

C volcanic ash only

D sand grains cemented together

Understand It with Pulse | Flag a mistake

10 **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

Understand It with Pulse | Flag a mistake

11 **A warm front forms when warm air rises gradually over colder air, often bringing steady**

- A precipitation
- B clear skies
- C drought
- D frost only

Understand It with Pulse | Flag a mistake

12 **An invasive species can harm native species by competing for resources, preying on natives or spreading**

A disease

B seeds only

C soil only

D water only

Understand It with Pulse | Flag a mistake

13 **New oceanic crust forms at divergent plate boundaries at mid ocean**

A trenches

B faults only

C ridges

D volcanoes only

Understand It with Pulse | Flag a mistake

14 **Upwelling brings cold nutrient rich water from deep water to the**

A seafloor

B shore only

C surface

D atmosphere

Understand It with Pulse | Flag a mistake

15 **Clouds form when moist air rises, cools and water vapour condenses on small**

A raindrops only

B ice crystals only

C wind gusts

D particles

Understand It with Pulse | Flag a mistake

16 **Deforestation reduces carbon storage because trees that absorbed carbon dioxide are**

A planted

B watered

C studied

D removed

Understand It with Pulse | Flag a mistake

17 **Basalt is an example of an extrusive igneous rock because it cooled**

A slowly underground

B under pressure only

C quickly on the surface

D in a river

Understand It with Pulse | Flag a mistake

18 **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

Understand It with Pulse | Flag a mistake

19 **Temperature falls 6 degrees per kilometre of altitude. From the surface, the fall after 3 kilometres in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A forest of 1000 hectares loses 200 hectares. The area remaining in hectares is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A plate moves 20 millimetres per year. In 2000000 years, the distance moved in kilometres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Air holds 15 grams per m³ and capacity is 30 grams. The relative humidity in percent is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A population of 600 animals falls by 150 animals. The population remaining is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A fault slips 6 metres in one earthquake. After 5 similar earthquakes, the total slip in metres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **A lake holds 5000 m³ and loses 500 m³. The volume remaining in m³ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **Wind speed is 20 kilometres per hour for 3 hours. The distance air travels in kilometres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **Carbon emissions are 40 units per year for 5 years. The total emissions in units is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **A plate moves 40 kilometres in 1000000 years. The rate in millimetres per year is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **Nitrogen makes up about 78 percent of dry air and oxygen makes up about**

A 21 percent

B 1 percent

C 50 percent

D 78 percent

Understand It with Pulse | Flag a mistake

32 **A producer makes its own food, usually by photosynthesis, while a consumer obtains energy by eating other**

A organisms

B rocks

C minerals

D water only

Understand It with Pulse | Flag a mistake

33 **Mohs scale ranks minerals by**

A density

B hardness

C colour

D mass

Understand It with Pulse | Flag a mistake

34 **Condensation is the change of water vapour into**

A ice only

B liquid water

C salt water

D groundwater only

Understand It with Pulse | Flag a mistake

35 **A barometer measures air**

A temperature

B humidity

C speed

D pressure

Understand It with Pulse | Flag a mistake

36 **Eutrophication is excess nutrient enrichment of water that can cause algal blooms and low**

A nitrogen

B salt

C temperature

D oxygen

Understand It with Pulse | Flag a mistake

37 **An unconformity is a gap in the rock record caused by erosion or lack of**

A deposition

B melting

C cooling

D weathering only

Understand It with Pulse | Flag a mistake

38 **Runoff is water that flows over the land surface into streams and**

A rivers

B clouds

C aquifers only

D oceans only

Understand It with Pulse | Flag a mistake

39 **Fog is a cloud that forms at or near the**

A tropopause

B stratosphere

C ground

D ocean surface only

Understand It with Pulse | Flag a mistake

40 **Nonrenewable resources, such as fossil fuels, form over geologic time and are used faster than they are**

A burned

B mined

C replenished

D transported

Understand It with Pulse | Flag a mistake

41 **A hot spot volcano forms over a plume of hot mantle material that is relatively fixed while the plate moves**

A below it

B away from it

C through it only

D above it

Understand It with Pulse | Flag a mistake

42 **Thermohaline circulation is driven by density differences caused by temperature and**

A wind

B tides

C waves

D salinity

Understand It with Pulse | Flag a mistake

43 **Surface temperature is 24 degrees. After rising 4 kilometres at 6 degrees per kilometre, the temperature in degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **A population of 500 grows by 20 percent. The increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **A sediment layer grows 2 millimetres per year. In 1000 years, the growth in millimetres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **A river flows at 15 m³ per second for 20 seconds. The volume in m³ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **Rainfall is 4 millimetres per hour for 5 hours. The total in millimetres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **A wetland of 200 hectares loses 50 hectares. The area remaining in hectares is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A layer 80 metres thick erodes at 4 metres per thousand years. The time in thousands of years is**

ANSWER

Understand It with Pulse | Flag a mistake

50 **Rainfall of 10 millimetres on 1 m² gives a volume in litres of**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. A
3. A
4. C
5. A
6. A
7. B
8. B
9. D
10. D
11. A
12. A
13. C
14. C
15. D
16. D
17. C
18. B
19. 18
20. 800
21. 40
22. 70
23. 50
24. 450
25. 30
26. 4500
27. 60
28. 200
29. 40
30. 24
31. A
32. A
33. B
34. B
35. D
36. D
37. A
38. A
39. C
40. C
41. D
42. D
43. 0
44. 100
45. 2000
46. 300
47. 20
48. 150
49. 20
50. 10

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