EARTH SYSTEMS 3209 · NEWFOUNDLAND AND LABRADOR

Earth Systems 3209

Practice Test

Unit A: Earth Materials and Plate Tectonics

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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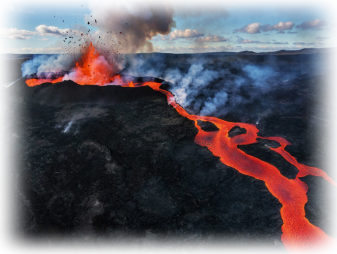

Question 1

Igneous rock forms when molten rock cools and

A) melts again

B) solidifies

C) compacts only

D) dissolves

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Question 2

Sedimentary rock forms mainly from sediments that are compacted and

A) melted

B) cemented

C) cooled

D) weathered only

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Question 3

Metamorphic rock forms when existing rock is changed by heat and

A) water only

B) wind only

C) pressure

D) erosion only

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Question 4

Weathering is the breakdown of rock in place, while erosion is the

A) formation of magma

B) melting of rock

C) cooling of lava

D) transport of weathered material

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Question 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

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Question 6

Granite is an example of an intrusive igneous rock because it cooled

A) quickly on the surface

B) slowly underground

C) under water only

D) in a glacier

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Question 7

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

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Question 8

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

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Question 9

Marble is a metamorphic rock formed from

A) limestone

B) granite

C) sandstone

D) basalt

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Question 10

Plate tectonics theory states that Earth outer layer is broken into plates that move over the

A) core

B) mantle

C) crust only

D) atmosphere

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Question 11

New oceanic crust forms at divergent plate boundaries at mid ocean

A) trenches

B) faults only

C) ridges

D) volcanoes only

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Question 12

Oceanic crust is destroyed at convergent boundaries in deep ocean

A) ridges

B) plains

C) volcanoes only

D) trenches

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Question 13

Transform plate boundaries are places where plates slide

A) past each other

B) apart only

C) together only

D) downward only

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Question 14

The Himalayan mountains formed mainly by collision of two

A) oceanic plates

B) continental plates

C) transform plates

D) volcanic plates

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Question 15

Earthquakes occur most often along plate boundaries where stress builds and rock suddenly

A) melts

B) cools

C) slips

D) compacts

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Question 16

A plate moves 50 millimetres per year. In 1000000 years, the distance moved in kilometres is

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Question 17

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

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Question 18

A rock layer is 120 metres thick and erodes at 2 metres per thousand years. The time in thousands of years to erode it is

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Question 19

A volcano erupts 3 times per century. In 5 centuries, the number of eruptions is

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Question 20

A sediment layer grows 4 millimetres per year. In 500 years, the growth in millimetres is

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Question 21

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

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Question 22

A mineral sample weighs 200 grams and contains 50 grams of quartz. The quartz in grams per 100 grams is

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Question 23

A rock contains 400 grams of feldspar out of 800 grams total. The feldspar percentage is

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Question 24

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

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Question 25

A core sample is 100 metres long and 30 metres are sandstone. The sandstone percentage is

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ANSWER KEY

1. B
2. B
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. 50
17. 40
18. 60
19. 15
20. 2000
21. 30
22. 25
23. 50
24. 40
25. 30

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