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Instructions

Timed Test

This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 06 minutes, 14 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 56 of 57

2 points Save Answer

Question 56

What is the deepest horizon in a soil, composed of partly weathered bedrock?

☒ C

☐ O

☐ D

☐ B

☐ A

Moving to the next question prevents changes to this answer.

Question 56 of 57

Start Remaining Time: 0...

Remaining Time: 06 minutes, 03 seconds - Windows Internet Explorer

http://bb/webapps/portal/frameSet.jsp?tab\_group\_id=21&... Remaining Time: 06 minut... X

Convert Select

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Remaining Time: 06 minutes, 03 seconds.

Less than half of the time remains.

Question Completion Status:

Save and Submit

Click Submit to complete this assessment.

Question 57 of 57

2 points Save Answer

Question 57

What is the usual orientation of foliation in a metamorphic rock?

☐ perpendicular to compression

☐ parallel to compression

☐ the same as in the protolith rock

☐ random orientation

Click Submit to complete this assessment.

Question 57 of 57

Start Remaining Time: 0...

AAA - Microsoft Wo...

1:42 PM 12/16/2013

Remaining Time: 07 minutes, 25 seconds. - Windows Internet Explorer

http://bbwebapps/portal/frameSet.jsp?tab\_group\_id=23&... Remaining Time: 07 minut...

Convert Select

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Description: The exam comprises 47 "Multiple choice" questions for 2 points each and 10 "True & False" questions for 1 point each. Good Luck....

Instructions: This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Timed Test: This Test allows multiple attempts.

Multiple Attempts: This Test can be saved and resumed later.

Force Completion: This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 07 minutes, 24 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 55 of 57

1 points Save Answer

The epicenter of an earthquake is the point of initial movement on the fault

☒ True  
☐ False

Moving to the next question prevents changes to this answer.

Question 55 of 57

Start Remaining Time: 0... 1:41 PM 12/16/2013

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Timed Test: This Test allows multiple attempts.

Multiple Attempts: This Test can be saved and resumed later.

Force Completion: This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 10 minutes, 24 seconds. Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 53 of 57

2 points Save Answer

What causes the up-and-down wiggles on a seismogram?

☐ ground vibrations  
☐ Variations of ground water levels in wells  
☐ electromagnetic pulses  
☐ variations in air pressure

Moving to the next question prevents changes to this answer.

Question 53 of 57

Start Remaining Time: 1... AAA - Microsoft Wo... 1:38 PM 12/16/2013

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Timed Test

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Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 09 minutes, 03 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 54 of 57

2 points Save Answer

Question 54

Long-term Prediction of Earthquakes in an area requires the knowledge of the following except:

☐ The location of the epicenters of the old earthquakes

☐ The periodicity of the major earthquakes that did hit the area

☐ The seismic zones in the area

☐ The active faults in the area

☒ None of the above

Moving to the next question prevents changes to this answer.

Question 54 of 57

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Timed Test

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Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 11 minutes, 15 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 51 of 57

2 points Save Answer

Question 51

The difference in the arrival times of the P and S waves in the **seismogram** is used to determine:

☒ The distance to an earthquake

☐ The recurrence interval of an earthquake

☐ The intensity of an earthquake

☐ The magnitude of an earthquake

Moving to the next question prevents changes to this answer.

Question 51 of 57

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Multiple Attempts This Test allows multiple attempts.

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Remaining Time: 10 minutes, 33 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 52 of 57

2 points Save Answer

Exfoliation refers to:  
☐ The tendency for basalt to weather faster than granite  
☐ The tendency for clay minerals to form during weathering  
☐ Organic acids from leaves dissolving minerals  
☒ The tendency for rocks to spall off thin sheets while weathering

Moving to the next question prevents changes to this answer.

Question 52 of 57

Start Remaining Time: 1... AAA - Microsoft Wo...

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 10 minutes, 24 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 53 of 57

2 points Save Answer

What causes the up-and-down wiggles on a seismogram?  
☐ ground vibrations  
☐ Variations of groundwater levels in wells  
☐ electromagnetic pulses  
☐ variations in air pressure

Moving to the next question prevents changes to this answer.

Question 53 of 57

Start Remaining Time: 1... AAA - Microsoft Wo...

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A large, stylized graphic of a hand with a green palm and red fingers, pointing towards the question area. The hand is positioned in the center of the screen, with the index finger pointing towards the question text. The hand is semi-transparent, allowing the underlying content to be visible.

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 11 minutes, 33 seconds. Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 51 of 57

2 points Save Answer

The difference in the arrival times of the P and S waves in the seismogram is used to determine:

☐ The distance to an earthquake

☐ The recurrence interval of an earthquake

☐ The intensity of an earthquake

☐ The magnitude of an earthquake

Moving to the next question prevents changes to this answer.

Question 51 of 57

Start Remaining Time: L...

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 11 minutes, 15 seconds. Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 51 of 57

2 points Save Answer

The difference in the arrival times of the P and S waves in the seismogram is used to determine:

☒ The distance to an earthquake

☐ The recurrence interval of an earthquake

☐ The intensity of an earthquake

☐ The magnitude of an earthquake

Moving to the next question prevents changes to this answer.

Question 51 of 57

Start Remaining Time: L... AAA - Microsoft Wo...

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 12 minutes, 15 seconds. † Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 49 of 57

2 points Save Answer

P waves are:

☐ Body waves that are last recorded on a seismogram

☒ Body waves that are first recorded on a seismogram

☐ Surface waves that are last recorded on a seismogram

☐ Surface waves that are first recorded on a seismogram

Moving to the next question prevents changes to this answer.

Question 49 of 57

Start Remaining Time: 12:15

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Description The exam comprises 47 Multiple Choice questions for 2 points each and 10 True & False questions for 1 point each. Good Luck....

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 12 minutes, 03 seconds. † Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 50 of 57

2 points Save Answer

With increasing travel time the difference in arrival times between the P and the S waves:

☐ none of the above

☐ increases

☐ decreases

☐ stays constant

Start Remaining Time: 12:03 AAA - Microsoft Wo...

1:36 PM  
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Description

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Good Luck....

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Multiple Attempts

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This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 13 minutes, 16 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 47 of 57

1 pointsSave Answer

Question 47

A blind fault, by definition, does not have a fault trace

☒ True  
☐ False

Moving to the next question prevents changes to this answer.

Question 47 of 57

StartRemaining Time: 13:16:00

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Multiple Attempts

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Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 13 minutes, 02 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 48 of 57

2 pointsSave Answer

Question 48

During ~~metasomatism~~ metamorphism, changes in the bulk composition of a rock occur primarily as a result of:

☐ increases in pressure  
☐ increases in temperature  
☐ reaction with hydrothermal fluids  
☐ all of the above

Moving to the next question prevents changes to this answer.

Question 48 of 57

StartRemaining Time: 13:02:00

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 13 minutes, 57 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 45 of 57

Question 45

2 points Save Answer

Which type of weathering mostly affects limestone?

oxidation

☒ dissolution

hydrolysis

unloading

frost wedging

Moving to the next question prevents changes to this answer.

Question 45 of 57

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 13 minutes, 47 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 46 of 57

Question 46

1 points Save Answer

S waves are second to arrive after P waves because they travel through gases, liquids and solids, so they get retarded.

True

☐ False

Moving to the next question prevents changes to this answer.

Question 46 of 57

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 13 minutes, 31 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 46 of 57

Question 46

1 points Save Answer

S waves are second to arrive after P waves because they travel through gases, liquids and solids, so they get retarded.

☐ True

☒ False

Moving to the next question prevents changes to this answer.

Question 46 of 57

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 14 minutes, 52 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 44 of 57

Question 44

2 points Save Answer

Identify the false statement. Soil genesis is influenced by a number of factors

☐ Time – Younger soils are more developed.

☐ Slope steepness – Soils develop best on low slopes.

☐ Substrate composition – Soil parent minerals.

☐ Vegetation – Controls type of organic matter added.

☐ Drainage – Wet soils are more organic-rich.

Moving to the next question prevents changes to this answer.

Question 44 of 57

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Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 14 minutes, 25 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 44 of 57

Question 44

2 points

Save Answer

Identify the false statement. Soil genesis is influenced by a number of factors

☒ Time – Younger soils are more developed.

☐ Slope steepness – Soils develop best on low slopes.

☐ Substrate composition – Soil parent minerals.

☐ Vegetation – Controls type of organic matter added.

☐ Drainage – Wet soils are more organic-rich.

Moving to the next question prevents changes to this answer.

Question 44 of 57

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Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 16 minutes, 50 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 41 of 57

Question 41

2 points

Save Answer

Which type of weathering results in clay minerals formation?

☐ unloading

☐ dissolution

☐ oxidation

☒ frost wedging

☐ hydrolysis

Moving to the next question prevents changes to this answer.

Question 41 of 57

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Multiple Attempts

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Force Completion

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This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 16 minutes, 14 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 41 of 57

Question 41

2 points Save Answer

Which type of weathering results in clay minerals formation?

☐ unloading

☐ dissolution

☐ oxidation

☐ frost wedging

☐ hydrolysis

Moving to the next question prevents changes to this answer.

Question 41 of 57

Start Remaining Time: 1... AAA - Microsoft Wo... 1:32 PM 12/16/2013

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Description

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Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 15 minutes, 48 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 42 of 57

Question 42

1 points Save Answer

At least 4 stations are needed to determine the epicenter of an earthquake

☐ True

☐ False

Moving to the next question prevents changes to this answer.

Question 42 of 57

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Description

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Good Luck....

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Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 15 minutes, 38 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 42 of 57

Question 42

1 points Save Answer

At least 4 stations are needed to determine the epicenter of an earthquake

☐ True  
☒ False

Moving to the next question prevents changes to this answer.

Question 42 of 57

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Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 15 minutes, 26 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 43 of 57

Question 43

2 points Save Answer

How do rock particles move during the passage of a P wave through the rock?

☐ back and forth parallel to the direction of wave travel  
☐ in a rolling circular motion  
☐ back and forth perpendicular to the direction of wave travel  
☐ the particles in rocks will not move as P waves do travel only through liquids

Moving to the next question prevents changes to this answer.

Question 43 of 57

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 18 minutes, 24 seconds.

† Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 39 of 57

Question 39

2 points Save Answer

What weathering products are most easily transported by water?

☐ sand grains

☐ clays in suspension

☐ pebbles

☒ dissolved ions

Moving to the next question prevents changes to this answer.

Question 39 of 57

Start Remaining Time: 1...

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Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 17 minutes, 23 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 40 of 57

Question 40

2 points Save Answer

Which of the following can not be triggered by an earthquake?

☐ Tsunamis

☐ Liquefaction

☐ Landslides

☐ Avalanches

☐ None of these answers

Moving to the next question prevents changes to this answer.

Question 40 of 57

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Multiple Attempts

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Force Completion

This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 21 minutes, 33 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 35 of 57

Question 35

1 points Save Answer

A thrust fault, like a reverse fault, has the hanging wall going up relative to the footwall with a steep fault dip or slope.

☐ True

☐ False

Moving to the next question prevents changes to this answer.

Question 35 of 57

Start

Remaining Time: 2...

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Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 19 minutes, 40 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 37 of 57

Question 37

2 points Save Answer

What is the general progression with increasing grade for foliated rocks?

☐ slate, shale, schist, gneiss

☐ slate, shale, phyllite, gneiss

☐ slate, phyllite, schist, gneiss

☐ phyllite, schist, slate, gneiss

☐ phyllite, schist, gneiss, slate

Moving to the next question prevents changes to this answer.

Question 37 of 57

Start

Remaining Time: 1...

AAA - Microsoft Wo...

1:28 PM  
12/16/2013

NOTRE DAME UNIVERSITY  
LOUAIZE - LEBANON

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Description

The exam comprises 47 "Multiple choice" questions for 2 points each and 10 "True & False" questions for 1 point each. Good Luck...

Instructions

Timed Test

This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 19 minutes, 10 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 38 of 57

Question 38

1 points Save Answer

Ground shaking is amplified in unconsolidated earth material.

☐ True

☐ False

Moving to the next question prevents changes to this answer.

Question 38 of 57

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Description

The exam comprises 47 "Multiple choice" questions for 2 points each and 10 "True & False" questions for 1 point each. Good Luck...

Instructions

Timed Test

This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 19 minutes, 02 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 38 of 57

Question 38

1 points Save Answer

Ground shaking is amplified in unconsolidated earth material.

☐ True

☐ False

Moving to the next question prevents changes to this answer.

Question 38 of 57

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Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 22 minutes, 00 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 34 of 57

Question 34

2 points Save Answer

Where do most metamorphic rocks form?

☐ within volcanoes

☐ on lake beds

☐ deep below the earth's surface

☐ on the earth's surface

Moving to the next question prevents changes to this answer.

Question 34 of 57

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Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 21 minutes, 40 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 34 of 57

Question 34

2 points Save Answer

Where do most metamorphic rocks form?

☐ within volcanoes

☐ on lake beds

☒ deep below the earth's surface

☐ on the earth's surface

Moving to the next question prevents changes to this answer.

Question 34 of 57

The image displays two sequential screenshots of a web-based timed test interface. The interface is for 'NOTRE DAME UNIVERSITY LOUAIZE - LEBANON' and shows 'Question 34 of 57' with a '2 points' value and a 'Save Answer' button. The question is 'Where do most metamorphic rocks form?' with four radio button options: 'within volcanoes', 'on lake beds', 'deep below the earth's surface', and 'on the earth's surface'. In the top screenshot, the 'deep below the earth's surface' option is selected. In the bottom screenshot, the 'on the earth's surface' option is selected. Red and green curved arrows highlight the change in the selected answer between the two screenshots. The 'Remaining Time' is shown as 22 minutes, 00 seconds in the top screenshot and 21 minutes, 40 seconds in the bottom screenshot. The interface also includes a sidebar with 'Discussions', 'Groups', 'Tools', and 'Help' links, and a top navigation bar with 'My Institution' and 'Courses' links.

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Description

The exam comprises 47 "Multiple choice" questions for 2 points each and 10 "True & False" questions for 1 point each.  
Good Luck...

Instructions

Timed Test

This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires.  
Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 21 minutes, 33 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 35 of 57

Question 35

1 points

Save Answer

A thrust fault, like a reverse fault, has the hanging wall going up relative to the footwall with a steep fault dip or slope.

True

False

Moving to the next question prevents changes to this answer.

Question 35 of 57

Start

Remaining Time: 2...

AAA - Microsoft Wo...

1:26 PM  
12/16/2013

NOTRE DAME UNIVERSITY  
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Good Luck...

Instructions

Timed Test

This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires.  
Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 22 minutes, 59 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 32 of 57

Question 32

2 points

Save Answer

Which of the following can trigger a tsunamis?

undersea earthquakes

undersea landslides

the eruption of an oceanic volcano

all of these

Moving to the next question prevents changes to this answer.

Question 32 of 57

Start

Remaining Time: 2...

1:25 PM  
12/16/2013

NOTRE DAME UNIVERSITY  
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Instructions

Timed Test

This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 22 minutes, 48 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 33 of 57

Question 33

2 points Save Answer

The magnitude is:

☐ A qualitative assessment of the kinds of damage done by an earthquake

☐ A quantitative assessment of the kinds of damage done by an earthquake

☐ A qualitative assessment of the shaking of the Earthquake

☐ A quantitative assessment of the shaking of the Earthquake

Moving to the next question prevents changes to this answer.

Question 33 of 57

Start Remaining Time: 2... AAA - Microsoft Wo...

1:25 PM 12/16/2013

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Instructions

Timed Test

This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 25 minutes, 35 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 29 of 57

Question 29

2 points Save Answer

Metamorphism can be caused by the following agents:

☐ Heat and pressure

☐ Compression and shear

☐ Hot water

☐ All of the above

☒ Two of the above

Moving to the next question prevents changes to this answer.

Question 29 of 57

Start Remaining Time: 2... AAA - Microsoft Wo...

1:22 PM 12/16/2013



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Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 24 minutes, 11 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 30 of 57

Question 30

2 points Save Answer

Which of the following is not used to classify foliated rocks?

☐ the texture of the parent rock

☐ the metamorphic grade

☒ crystal size

☐ the degree to which minerals are segregated into lighter and darker bands

Moving to the next question prevents changes to this answer.

Question 30 of 57

Start Remaining Time: 2... AAA - Microsoft Wo... 1:24 PM 12/16/2013

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Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 24 minutes, 02 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 31 of 57

Question 31

2 points Save Answer

Fractures along which no movement has occurred are:

☐ Fold limbs

☐ Joints

☐ Monoclines

☐ Transform faults

Moving to the next question prevents changes to this answer.

Question 31 of 57

Start Remaining Time: 2... AAA - Microsoft Wo... 1:24 PM 12/16/2013

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Good Luck...

Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 23 minutes, 25 seconds.

Less than half of the time remains.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 32 of 57

Question 32

2 points Save Answer

Which of the following can trigger a tsunami?  
☐ undersea earthquakes  
☐ undersea landslides  
☐ the eruption of an oceanic volcano  
☐ all of these

Moving to the next question prevents changes to this answer.

Question 32 of 57

Start Remaining Time: 2... AAA - Microsoft Wo... 1:25 PM 12/16/2013

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Good Luck...

Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 26 minutes, 03 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 28 of 57

Question 28

2 points Save Answer

Which of the following metamorphic rocks is not paired with its true parent rock?  
☒ quartzite - quartz arenite  
☐ marble-granite  
☐ greenstone-basalt  
☐ schist - shale

Moving to the next question prevents changes to this answer.

Question 28 of 57

Start Remaining Time: 2... 1:22 PM 12/16/2013

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Instructions

Timed Test

This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 25 minutes, 35 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 29 of 57

Question 29

2 points Save Answer

Metamorphism can be caused by the following agents:

☐ Heat and pressure

☐ Compression and shear

☐ Hot water

☐ All of the above

☒ Two of the above

Moving to the next question prevents changes to this answer.

Question 29 of 57

NOTRE DAME UNIVERSITY  
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Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 26 minutes, 55 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 27 of 57

Question 27

2 points Save Answer

What type of faulting would be most likely to occur along transform faults?

☐ normal faulting

☐ reverse faulting

☐ strike-slip faulting

☐ all of these

Moving to the next question prevents changes to this answer.

Question 27 of 57

Start Remaining Time: 2:00 AAA - Microsoft Wo...

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Start Remaining Time: 2:00

1:21 PM 12/16/2013

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Good luck...

Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 26 minutes, 40 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 28 of 57

2 points Save Answer

Question 28

Which of the following metamorphic rocks is not paired with its true parent rock?

☐ quartzite - quartz arenite

☐ ~~marble~~-granite

☐ greenstone-basalt

☐ schist - shale

Moving to the next question prevents changes to this answer.

Question 28 of 57

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Good luck...

Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 26 minutes, 21 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 28 of 57

2 points Save Answer

Question 28

Which of the following metamorphic rocks is not paired with its true parent rock?

☐ ~~quartzite~~ - quartz arenite

☐ ~~marble~~-granite

☐ greenstone-basalt

☐ schist - shale

Moving to the next question prevents changes to this answer.

Question 28 of 57

The image displays two screenshots of a web-based timed test interface for Notre Dame University, Louaize - Lebanon. The interface includes a sidebar with navigation links (Discussions, Groups, Tools, Help) and a main content area for the test. The test is titled "Question 28" and is worth 2 points. The question asks: "Which of the following metamorphic rocks is not paired with its true parent rock?". The options are: ☐ quartzite - quartz arenite, ☐ ~~marble~~-granite, ☐ greenstone-basalt, and ☐ schist - shale. The remaining time is 26 minutes, 40 seconds in the first screenshot and 26 minutes, 21 seconds in the second. Red and green arrows highlight changes between the two screenshots: the word "following" is added to the question, "quartzite" is changed to "~~quartzite~~", "marble" is changed to "~~marble~~", and "shale" is changed to "shale".

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Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 28 minutes, 43 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 25 of 57

2 points Save Answer

Which of these silicate minerals chemically weathers most rapidly?  
☐ K-feldspar  
☐ Hornblende  
☒ Kaolinite  
☐ quartz  
☐ olivine

Moving to the next question prevents changes to this answer.

Question 25 of 57

Start Remaining Time: 2...

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Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 27 minutes, 44 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 26 of 57

2 points Save Answer

Within a 50 mile traverse you walk from a shale into a slate into a phyllite. You are walking in the direction of \_\_\_\_\_  
☐ increasing degree of contact metamorphism  
☐ increasing metasomatism  
☒ increasing metamorphic grade  
☐ decreasing metamorphic grade

Moving to the next question prevents changes to this answer.

Question 26 of 57

Start Remaining Time: 2... AAA - Microsoft Wo...

1:30 PM  
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Description

The exam comprises 47 "Multiple choice" questions for 2 points each and 10 "True & False" questions for 1 point each.  
Good Luck....

Instructions

Timed Test

This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires.  
Warnings appear when **half the time**, **5 minutes**, **1 minute**, and **30 seconds** remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 31 minutes, 06 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 23 of 57

Question 23

1 points Save Answer

The present scientific advancement in technology is allowing scientists to predict exactly when and where a major Earthquake will take place in the future.

☐ True

☒ False

Moving to the next question prevents changes to this answer.

Question 23 of 57

Start Remaining Time: 3...

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Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 32 minutes, 12 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 21 of 57

Question 21

2 points Save Answer

The seismic gap is:

☐ The readjustment on the fault after the earthquake

☐ A precursor to an earthquake

☒ The slip on a fault caused by an earthquake

☐ A segment of an active fault that has not slipped for a long period.

Moving to the next question prevents changes to this answer.

Question 21 of 57

Start Remaining Time: 3...

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Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 31 minutes, 53 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 22 of 57

Question 22

2 points Save Answer

Identify the right statement. Soil quality is degraded by:

☐ Overuse of pesticides.

☐ Industrial contamination

☐ Salt build-up

☒ All of the above

Moving to the next question prevents changes to this answer.

Question 22 of 57

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Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later. This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 34 minutes, 10 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 19 of 57

Question 19

2 points Save Answer

Which of the following statements is false? Schist

☒ has small mica flakes that are barely visible to the naked eye

☐ has distinct foliation called schistosity

☐ is a fine to coarse rock with large non-mica minerals called porphyroblasts

☐ is the result of a medium to high grade metamorphism

Moving to the next question prevents changes to this answer.

Question 19 of 57

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Instructions

Timed Test

This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when half the time, 5 minutes, 1 minute, and 30 seconds remain.

Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 33 minutes, 08 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 20 of 57

Question 20

2 points Save Answer

Weathering tends to create what shape of rock blocks?

☐ Columnar

☒ Spheroidal

☐ Cubic

☐ Angular

Moving to the next question prevents changes to this answer.

Question 20 of 57

NOTRE DAME UNIVERSITY  
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Multiple Attempts

This Test allows multiple attempts.

Force Completion

This Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 32 minutes, 54 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 21 of 57

Question 21

2 points Save Answer

The seismic gap is:

☐ The readjustment on the fault after the earthquake

☒ A precursor to an earthquake

☐ The slip on a fault caused by an earthquake

☐ A segment of an active fault that has not slipped for a long period.

Moving to the next question prevents changes to this answer.

Question 21 of 57

Start

Remaining Time: 3...

AAA - Microsoft Wo...

1:15 PM  
12/16/2013

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Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 37 minutes, 07 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 17 of 57

Question 17

2 points Save Answer

Marble is a metamorphic rock that forms from a \_\_\_\_\_ parent rock

☒ limestone

☐ sandstone

☐ granite

☐ shale

Moving to the next question prevents changes to this answer.

Question 17 of 57

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Instructions

Timed Test This Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple Attempts This Test allows multiple attempts.

Force Completion This Test can be saved and resumed later.

This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 35 minutes, 30 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 19 of 57

Question 19

2 points Save Answer

Which of the following statements is false? Schist

☐ has small mica flakes that are barely visible to the naked eye

☐ has distinct foliation called schistosity

☐ is a fine to coarse rock with large non-mica minerals called porphyroblasts

☐ is the result of a medium to high grade metamorphism

Moving to the next question prevents changes to this answer.

Question 19 of 57

Start Remaining Time: 3:00

1:11 PM 12/26/2013

Start Remaining Time: 3:00

1:13 PM 12/26/2013

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Instructions

Timed TestThis Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple AttemptsThis Test allows multiple attempts.

Force CompletionThis Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 42 minutes, 21 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 10 of 57

2 pointsSave Answer

Question 10

Mechanical weathering as jointing and frost wedging are most likely to occur:

☒ in the tropics

☐ on a steep, young mountains range

☐ on a coastal plain

☐ in a delta

Moving to the next question prevents changes to this answer.

Question 10 of 57

StartRemaining Time: 4...

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DescriptionThe exam comprises 47 Multiple Choice questions for 2 points each and 10 True & False questions for 1 point each. Good Luck.

Instructions

Timed TestThis Test has the time limit of 50 minutes. This Test will save and submit automatically when the time expires. Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain.

Multiple AttemptsThis Test allows multiple attempts.

Force CompletionThis Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 39 minutes, 27 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 13 of 57

2 pointsSave Answer

Question 13

Where is the focus with respect to the epicenter.

☐ the focus is the same as the epicenter.

☒ directly below the epicenter

☐ in the P wave shadow zone

☐ directly above the epicenter



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Good Luck...

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Remaining Time: 39 minutes, 09 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 14 of 57

Question 14

2 points Save Answer

The dominant form of weathering in deserts is \_\_\_\_\_, desert vegetation is \_\_\_\_\_, and soils are \_\_\_\_\_.

☐ chemical, diverse, thin

☐ chemical, diverse, thick

☐ mechanical, limited, thick

☐ mechanical, limited, thin

Moving to the next question prevents changes to this answer.

Question 14 of 57

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Remaining Time: 43 minutes, 35 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 9 of 57

Question 9

2 points Save Answer

Rocks often shatter when they freeze because

☐ water becomes more corrosive when it's frozen

☐ rocks contract when they get cold

☒ ice expands when it freezes

☐ ice crystals are sharp

Moving to the next question prevents changes to this answer.

Question 9 of 57

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Remaining Time: 43 minutes, 20 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 10 of 57

Question 10

2 points Save Answer

Mechanical weathering as jointing and frost wedging are most likely to occur:

☐ in the tropics

☐ on a steep, young mountains range

☐ on a coastal plain

☐ in a delta

Moving to the next question prevents changes to this answer.

Question 10 of 57

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This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 46 minutes, 47 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 4 of 57

Question 4

2 points Save Answer

Identify the false statement

☐ The upper temperature limit may vary depending on water content

☐ Most metamorphism occurs between 250°C and 850°C

☒ The width of each aureole zone is due to the degree of metasomatism

☐ Mineral stability is highly independent from temperature and pressure

Moving to the next question prevents changes to this answer.

Question 4 of 57

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Remaining Time: 46 minutes, 14 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 5 of 57

Question 5

2 pointsSave Answer

Hydrothermal metamorphism is very common in which of the following settings?

☐ in mid-continental regions

☐ along shallow faults

☐ at continental collision zones

☒ at mid-ocean ridges

Moving to the next question prevents changes to this answer.

Question 5 of 57

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Force CompletionThis Test can be saved and resumed later.  
This Test does not allow backtracking. Changes to the answer after submission are prohibited.

Remaining Time: 45 minutes, 39 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 6 of 57

Question 6

1 pointsSave Answer

Shallow focus earthquakes occur along divergent plate boundaries

☒ True

☐ False

Moving to the next question prevents changes to this answer.

Question 6 of 57

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Remaining Time: 45 minutes, 06 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 7 of 57

Question 7

2 points Save Answer

What is the definition of erosion?

☐ The incorporation of and transportation of material by mobile agents such as water, wind, and ice

☐ The dissolution of soil components

☐ The accumulation of sediment following transportation

Moving to the next question prevents changes to this answer.

Question 7 of 57

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Multiple Attempts

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Force Completion

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Remaining Time: 44 minutes, 56 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 8 of 57

Question 8

1 points Save Answer

Tsunamis set up at a coast of the Pacific in Chile and can reach the other side in Japan

☐ True

☐ False

Moving to the next question prevents changes to this answer.

Question 8 of 57

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Multiple Attempts This Test allows multiple attempts.

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Remaining Time: 48 minutes, 03 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 3 of 57

2 points Save Answer

Question 3

Choose the right answer. Roofers use:

☐ schist to shingle roofs due to its foliation (schistosity), that causes it to break in convenient size

☒ slate because its slaty cleavage causes it to break in good shingle size

☐ Gneiss, often contorted (gneissosity), for its distinct compositional bands

☐ none of the above

Moving to the next question prevents changes to this answer.

Question 3 of 57

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Remaining Time: 49 minutes, 21 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 1 of 57

2 points Save Answer

Question 1

Which of the following observations may indicate a forthcoming destructive earthquake?

☐ An increase in the frequency of smaller earthquakes in the region

☐ rapid changes in water levels in wells

☐ Gases (Rn, He) measurements in wells

☒ all of these

Moving to the next question prevents changes to this answer.

Question 1 of 57

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Remaining Time: 48 minutes, 47 seconds.

Question Completion Status:

Moving to the next question prevents changes to this answer.

Question 2 of 57

Question 2

2 pointsSave Answer

What silicate mineral is common to Phyllite, Schist and Gneiss?

☒ mica

☐ feldspar

☐ quartz

☐ chlorite

Moving to the next question prevents changes to this answer.

Question 2 of 57

Start

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AAA - Microsoft Wo...

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