

# Quiz 3

- Due Apr 29 at 11:59pm
- Points 100
- Questions 10
- Available after Feb 28 at 2:15pm
- Time Limit 15 Minutes

## Instructions

This quiz is on volcanoes (lectures 6 and 7 and chapter 4).

- Time limit: 15 minutes
- The timer continues even if you exit the quiz
- One attempt
- Open book/note

Quizzes have no due dates, but all quizzes must be completed by April 29, 2024.

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	6 minutes	100 out of 100
Score for this quiz: 100 out of 100			
Submitted Mar 7 at 10:11am			
This attempt took 6 minutes.			
⋮			
Question 1			
10 / 10 pts			
A typical shield volcano is composed primarily of _____.			
Correct!			
<input checked="" type="radio"/> solidified mafic lava flows			
<input type="radio"/> cinders and volcanic bombs			
<input type="radio"/> alternating layers of lava and ash			
<input type="radio"/> layers of volcanic ash			
⋮			
Question 2			
10 / 10 pts			
The two most abundant volcanic gases emitted from volcanoes are			
<input type="radio"/> water and sulfur dioxide.			
Correct!			
<input checked="" type="radio"/> water and carbon dioxide.			
<input type="radio"/> sulfur dioxide and carbon monoxide.			

☐ carbon dioxide and sulfur dioxide.



### Question 3

10 / 10 pts

Why does melting occur at a divergent plate boundary?

Correct!

- ☒ Pressure decreases as mantle material rises upward
- ☐ Volcanic activity leads to higher temperatures in the crust.
- ☐ Water is added to the mantle, lowering its melting point.
- ☐ Temperature increases as mantle material descends.



### Question 4

10 / 10 pts

Magma chambers typically develop at what depth in the Earth?

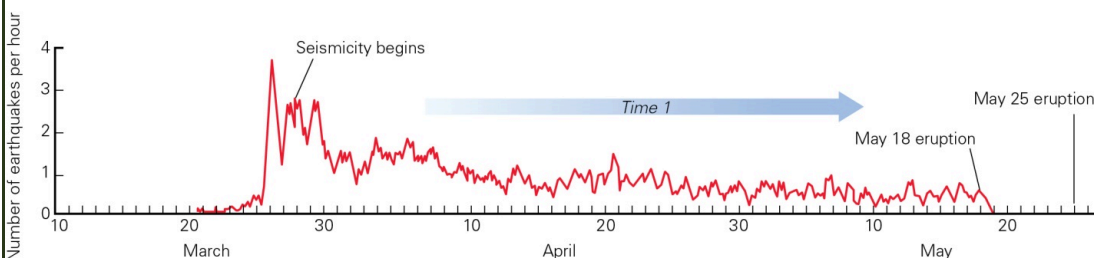
- ☐ 10–300 meters
- ☐ 1–5 kilometers
- Correct!
- ☒ 6–10 kilometers
- ☐ 20–50 kilometers
- ☐ 50–100 kilometers



### Question 5

10 / 10 pts

What does the seismic record illustrated in the figure below for Mt. St. Helens in 1980 suggest?



- ☐ The seismic record is inconclusive and by itself is just a record of earthquake activity in the area.

Correct!

- ☒ The seismic record can be interpreted to indicate rising magma accumulating in a magma chamber.

☐ The seismic record records the occurrence of landslides affecting the area.

☐ The seismic record records the occurrence of volcanic explosions at the location.



#### Question 6

10 / 10 pts

What triggered the abnormal Vulcanian style eruption of Eyjafjallajökull in 2010?

Correct!

☒ Glacial meltwater entered the magma chamber.

☐ An earthquake released pressure on the magma chamber.

☐ Two magma sources mixed together to create a more viscous magma.

☐ The volcano collapsed to form a caldera.



#### Question 7

10 / 10 pts

A [Answer1] is a mixture of water and pyroclastic material that moves downslope. (Fill in the blank)

Correct!

lahar

Correct Answers

lahar



#### Question 8

10 / 10 pts

How many different types of volcanoes are shown in this photo?



☐ 1

Correct!

☒ 2

☐ 3

☐ 4



Question 9

10 / 10 pts

The most common VEI of volcanic eruptions over the last 10,000 years is \_\_\_\_.

☐ 0

☐ 1

Correct!

☒ 2

☐ 3

☐ 4

☐ 5

☐ 6

☐ 7

☐ 8



Question 10

10 / 10 pts

True or false: Most earthquake swarms near a volcano lead to a volcanic eruption.

☐ True

Correct!

☒ False

Quiz Score: 100 out of 100