

Volcanology Basics

Volcanology · Practice Test · 12 Questions

1. What is the molten rock called when it is found beneath the Earth's surface?

- A) Lava
- B) Ash
- C) Magma
- D) Pumice

2. Which of these is the most common type of volcano, characterized by its broad, gently sloping sides formed from fluid lava flows?

- A) Stratovolcano
- B) Cinder cone
- C) Caldera
- D) Shield volcano

3. What is the term for volcanic ash, rock fragments, and gases that are ejected from a volcano during an eruption?

- A) Magma plume
- B) Pyroclastic flow
- C) Lava dome
- D) Lahar

4. Which famous volcano erupted in 79 AD, famously burying the Roman cities of Pompeii and Herculaneum?

- A) Mount Vesuvius
- B) Mount Fuji
- C) Mount St. Helens
- D) Kilauea

5. What is the name for a large, steep-sided volcano built up of alternating layers of lava flows and ash deposits?

- A) Shield volcano
- B) Cinder cone
- C) Stratovolcano
- D) Maar

6. What is the name of the opening at the Earth's surface through which volcanic materials erupt?

- A) Crater
- B) Vent
- C) Caldera
- D) Fissure

7. Which of the following is a fast-moving current of hot gas and volcanic matter that flows along the ground?

- A) Lava flow
- B) Volcanic bomb
- C) Pyroclastic flow
- D) Tephra

8. The Hawaiian Islands were formed by a volcanic hotspot, which is a plume of hot mantle rising from deep within the Earth. What type of volcano is most common in Hawaii?

- A) Stratovolcano
- B) Cinder cone
- C) Shield volcano
- D) Composite volcano

9. What is the term for a mudflow or debris flow composed of pyroclastic material, rocky debris, and water, often triggered by volcanic eruptions?

- A) Lava dome
- B) Lahar
- C) Volcanic gas
- D) Ash cloud

10. Which of these is a volcanic cone that is relatively small and steep-sided, formed by the accumulation of cinders around a vent?

- A) Stratovolcano
- B) Shield volcano
- C) Caldera
- D) Cinder cone

11. What gas is commonly released by volcanoes and can form acid rain?

- A) Nitrogen
- B) Oxygen
- C) Sulfur dioxide
- D) Carbon monoxide

12. A large depression formed by the collapse of a volcano after an eruption is known as a:

- A) Crater
- B) Vent
- C) Caldera
- D) Fissure