

Name _____ Period _____ Date _____

Volcano Test

Use the diagram below to help you answer question #1

- 1) The most likely cause of volcanic activity on the island of Iceland is _____.
 - a. The strength of the Atlantic Ocean's currents
 - b. the pulling apart of the tectonic plates
 - c. the colliding of the tectonic plates
 - d. a hot spot under a tectonic plate

- 2) The most likely cause of the slow movement of magma toward Earth's surface is that the _____.
 - a. magma is more dense than the rock around it
 - b. magma is less dense than the rock around it
 - c. magma is hotter than the rock around it
 - d. magma is cooler than the rock around it

- 3) Which of these best describes a shield volcano?
 - a. a small crack or fissures eruption volcanic material
 - b. a volcano with steep, rough, jagged edges
 - c. a very wide volcano with gently sloping sides
 - d. a volcano with steep, smooth sides composed of tephra`

- 4) Which statement about lava flow is accurate?
 - a. They always move rapidly
 - b. They destroy everything in their paths
 - c. They always cool down and change into magma
 - d. They are not very damaging to the environment

5) Which of the following best describes a composite volcano?

- a. a small crack or fissures eruption volcanic material
- b. a volcano with steep, rough, jagged edges
- c. a very wide volcano with gently sloping sides
- d. a volcano with steep, smooth sides composed of tephra

6) Why is Hawaii made of volcanoes?

- a. plates are moving apart
- b. a hot spot exists
- c. plates are moving together
- d. rift zones exist

7) What kind of magma produces violent volcanic eruptions?

- a. those rich in silica
- b. those low in silica
- c. those forming shield volcanoes
- d. those rich in iron

8) _____ boundaries would involve a subduction zone causing rock to melt and forming magma?

- a. Divergent
- b. Convergent
- c. Transform
- d. Hot Spot

Use the diagram below to help you answer question #9



9) Which type of volcano, shown in the diagram above, is made entirely of tephra?

- a. shield
- b. caldera
- c. cinder cone
- d. composite

10) What is the largest intrusive igneous rock body?

- a. dike
- b. volcanic neck
- c. sill
- d. batholith

11) Which of the following volcano is made of alternating layers of ash and cooled lava flows?

- a. shield volcano
- b. plateau basalts
- c. composite volcano
- d. cinder cone volcano

12) Which of the following igneous features is cooled magma that flowed parallel between the rock layers?

- a. batholiths
- b. volcanic neck
- c. sill
- d. dike

13) Which of the following forms when the top of a volcano collapses into a partially emptied magma chamber?

- a. fissure
- b. crater
- c. caldera
- d. volcanic neck

Use the picture below to help you answer question #14



14) Which of the following terms below best describes the solidified lava in the picture above?

- a. aa lava
- b. pahoehoe
- c. pillow lava
- d. ash

15) The Hawaiian Islands were formed by volcanic activity. A reasonable hypothesis based on this information is that in the distant future .

- a. the islands will sink
- b. the islands will become smaller
- c. there will be no more volcanic activity
- d. there will be more islands

16) All volcanoes form because of _____.

- a. tidal waves in the ocean
- b. the movement of tectonic plates
- c. the spewing of volcanic ash into the environment
- d. deposition of large rocks

17) Magma is pushed upwards from the core of Earth and flows through openings called

- a. craters
- b. volcanic holes
- c. vents
- d. hot spots

18) The eruption of the Soufriere Hills volcano on the island of Montserrat was extremely explosive and violent. What two materials in the magma most contributed to this explosive eruption?

- a. water vapor and calcium
- b. silica and trapped gases
- c. sulfur and igneous rock
- d. silica and basalt

19) Which of the following is not a type of lava?

- a. basaltic
- b. andesitic
- c. granitic
- d. composite

Examine the picture below to answer question #20

20) What is the correct label for the **X** in the picture above?

a. crater

c. sill

b. magma chamber

d. vent