

SIO 15 (FQ 2024) – Test 5 Homework #3 Questions

Test questions/choices of possible answers in the actual test may be modified from the questions below.

- 1) Which of these cities were destroyed by the 79 A.D. eruption of Mt. Vesuvius?
 - a) Rome
 - b) Naples
 - c) Pompeii
 - d) Seattle
 - e) Tokyo

- 2) Which of these major Italian cities is threatened by an eruption at Campi Flegrei?
 - a) Rome
 - b) Milan
 - c) Florence
 - d) Naples
 - e) Venice

- 3) Given its many calderas what best describes potential volcanic eruptions at Campi Flegrei, Italy?
 - a) very benign
 - b) moderately benign
 - c) very violent explosions
 - d) mainly low-viscosity lava flows
 - e) small-volume eruptions

- 4) Mt. Vesuvius, Italy is of which principal type?
 - a) Shield volcano
 - b) Composite volcano
 - c) Extinct volcano
 - d) Strombolian volcano

- 5) What was the most deadly volcanic hazard involved in the 1991 Mt Pinatubo eruption?
 - a) Pyroclastic flows
 - b) lava flows
 - c) tsunami
 - d) lahar
 - e) ash flows

- 6) A sudden increase in seismicity at a volcano can indicate an imminent volcanic eruption.
 - b) true
 - c) false

- 7) Which of these is NOT one of the three Vs in volcanism?
- a) viscosity
 - b) violence
 - c) volume
 - d) volatiles
- 8) What does the geotherm describe?
- a) the rock color at the center of Earth
 - b) location of seismicity inside Earth
 - c) temperature and pressure inside Earth
 - d) location of temperature anomalies and volcanoes on Earth's surface
 - e) temperature profile in Earth's atmosphere
- 9) Apart from Yellowstone, which of these would be another volcano capable of a VEI 8 eruption?
- a) Mt. St. Helens, Washington
 - b) Toba, Indonesia
 - c) Kilauea, Hawaii
 - d) Mt. Etna, Sicily
 - e) Mt. Rainier, Washington
- 10) Which type of plate boundary do we find in Cascadia?
- a) divergent
 - b) strike-slip
 - c) convergent
 - d) normal
 - e) transform
- 11) Why is the 1985 earthquake in Mexico called the Mexico City earthquake?
- a) Because the epicenter was within Mexico City
 - b) Because most aftershocks were registered in Mexico City
 - c) Because the earthquake caused extensive damage and fatalities in Mexico City
 - d) Because the off-shore earthquake sent a tsunami into Mexico City
- 12) Where does the San Andreas Fault go in Southern California, relative to the Salton Sea?
- a) west of the Salton Sea
 - b) south of the Salton Sea
 - c) exactly within the Salton Sea
 - d) east of the Salton Sea

13) In which U.S. state would we find the Long Valley Caldera?

- a) Washington
- b) California
- c) Oregon
- d) Alaska
- e) Hawaii

14) In October 2024, which of these storms caused the most wide-spread power outage as well as fatalities in the U.S. southeast?

- a) Hurricane Helene
- b) Hurricane Beryl
- c) Hurricane Milton
- d) Hurricane Isaac

15) The activity at which of these volcanoes threatens Mexico City?

- a) Arenal
- b) Popocatepetl
- c) Volcan de Fuego
- d) Volcan de Colima
- e) Cerro Negro