

SIO 15 (FQ 2024) – Test 4 Homework #2 Questions

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

- 1) What is a blue moon?
 - a) The first new moon in every month
 - b) The first full moon in every month
 - c) The occasional second full moon in a month
 - d) The full moon during a lunar eclipse

- 2) At which speeds do Earth's tectonic plates typically move?
 - a) a few km/year
 - b) a few mm/year
 - c) a few m/year
 - d) a few cm/year

- 3) What is the depth of Earth's deepest earthquakes?
 - a) 670 km
 - b) 670 m
 - c) 6700 km
 - d) 67 km

- 4) Where do Earth's deepest earthquakes typically occur?
 - a) in mountain belts
 - b) along mid-ocean ridges
 - c) in subduction zones
 - d) along continental rifts

- 5) Along which type of plate boundary do Earth's largest earthquakes typically occur?
 - a) divergent
 - b) convergent
 - c) transform
 - d) strike-slip
 - e) normal

- 6) Where would we find the Wadati-Benioff zone?
 - a) in a mountain belt
 - b) in a subducting oceanic plate
 - c) along a mid-ocean ridge
 - d) at the center of the Earth

- 7) On a typical day, how many earthquakes occur on Earth?
- a) 3.5 million
 - b) 3.5
 - c) 35
 - d) 350
 - e) 3500
- 8) Standing on a beach, how can I tell whether a regular tide is about to come or a tsunami?
- a) a tsunami has a different color
 - b) before a tsunami, water goes out to sea much faster than going into a low tide
 - c) before a tsunami, water goes out to sea much slower than going into a low tide
 - d) a tsunami comes 4 times a month while tide comes in twice a day
- 9) About how fast does a tsunami travel in the open ocean?
- a) 8 km/h
 - b) 8 km/s
 - c) 800 km/s
 - d) 800 km/h
 - e) 8 km/day
- 10) Submarine volcanic eruptions can cause tsunamis.
- a) true
 - b) false
- 11) How do asperities prevent continuous slip along an earthquake fault?
- a) asperities actually accelerate slip
 - b) continuous formation of new crust within the fault
 - c) protrusions lock a fault
 - d) asperities cool a fault
 - e) asperities expel water
- 12) What is induced seismicity?
- a) earthquakes triggered by earth tides
 - b) earthquakes and tremors within a volcano
 - c) earthquakes caused by hurricanes
 - d) man-made earthquakes

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13) Very small earthquakes in the ocean can cause very large tsunami.

- a) True
- b) false

14) The remnants of dissipating hurricanes can cause torrential rain far inland.

- a) true
- b) false

15) Where would we find the Salton Sea?

- a) Northern California
- b) East of Los Angeles
- c) West of Los Angeles
- d) East of San Diego
- e) West of San Diego