

Daily Subjectwise Quiz Day 3 Geography III (Online Prelims Test)

- 1) Consider the following statements with respect to Earthquake Waves?
 - 1. P-waves are body waves and are more destructive than surface waves.
 - 2. P-waves travel only through solid medium whereas S-waves can travel through both solid and liquid medium.

Which of the statement(s) given above is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer: d

Earthquake Waves



- P-waves move faster and are the first to arrive at the surface, these are also called 'primary waves'.
- The P-waves are similar to sound waves, they travel through gaseous, liquid and solid materials.
- S-waves arrive at the surface with some time lag, these are called secondary waves.
- An important fact about S-waves is that they can travel only through solid materials.
- The surface waves are the last to report on seismograph, These waves are more destructive.
- They cause displacement of rocks, and hence, the collapse of structures occurs.
- 2) Consider the following statements with respect to Volcanoes?
 - 1. Volcanoes occur only where ocean crust collides with continental crust.
 - 2. Shield volcanoes are mostly made up of basalt, a type of lava that is very fluid when erupted.

Which of the statement(s) given above is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer: b

Volcanoes

- Earth quakes are usually associated with volcanoes, since both are related to plate movements.
- Volcanoes can also happen with ocean-ocean crust collision. Best example is South East Asian

Archipelago

- The shield volcanoes are the largest of all the volcanoes on the earth
- These volcanoes are mostly made up of basalt, a type of lava that is very fluid when erupted.
- 3) Consider the following statements with respect to Intrusive Volcanic Landforms?
 - 1. Batholiths are formed due to the solidification of hot magma inside the earth's crust.
 - 2. Dykes are almost perpendicular to the earth's crust, are commonly found in the western Maharashtra region.

Which of the statement(s) given above is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer: c

Intrusive Volcanic Landforms

Batholiths

- Batholiths are formed due to the solidification of hot magma inside the earth's crust, they are in the form of large domes.
- They are the large granitic rock bodies formed at the core of the huge mountains.

Dykes

• At the time of the volcanic eruption, the magma finds its way out through all possible ways like cracks and fissures in the land.

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- This magma present in the cracks and the fissures gets cooled in the same position and forms a wall-like structure called Dykes.
- The Dykes are almost perpendicular to the earth's crust.
- The Dykes are commonly found in the western Maharashtra region.
- 4) Which of the following is/are correct about Types of Earthquakes?
 - 1. Tectonic earthquakes are generated due to the sliding of rocks along the fault line.
 - 2. Collapse earthquakes occur due to chemical or nuclear device explosions.

Select the correct answer using the codes below

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer: a

Types of Earthquake

- Among different types of earthquakes, the most common ones are the tectonic earthquakes, these are generated due to sliding of rocks along a fault plane.
- A special class of tectonic earthquake is sometimes recognized as volcanic earthquake, however, these are confined to areas of active volcanoes.

- In the areas of intense mining activity, sometimes the roofs of underground mines collapse causing minor tremors, these are called collapse earthquakes.
- Ground shaking may also occur due to the explosion of chemical or nuclear devices, Such tremors are called explosion earthquakes.
- The earthquakes that occur in the areas of large reservoirs are referred to as reservoir induced earthquakes.
- 5) Which of the following is/are correct about Volcanic Eruptions?
 - 1. Basaltic eruption occurs at mid oceanic ridge and andesitic eruption occurs at volcanic arcs and mountains.
 - 2. Andesitic eruption is more fluid and mobile than basaltic eruptions.

Select the correct answer using the codes below

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

Answer: a

Volcanic Eruptions

- Basaltic eruptions are characterized by low gas content and low viscosity magmas.
- If the viscosity is low, non-explosive eruptions usually begin with fire fountains due to release of dissolved gases.
- They occur at mid-oceanic ridge and hot spot volcanism. Basalt is highly fluid -mobile and spread across quietly.
- Explosive or andesitic eruptions are favored by high gas content and high.
- Explosive bursting of bubbles will fragment the magma into clots of liquid that will cool as they fall through the air.
- Andesitic is less fluid mobile and solidifies at short distance due to intense pressure developed inside.