

Class -10
Geography (Chapter IX)
Earthquake

Definition

- Earthquake is the sudden releases of strain energy in the Earth crust, resulting in waves of shaking that radiate outwards from the earthquake.

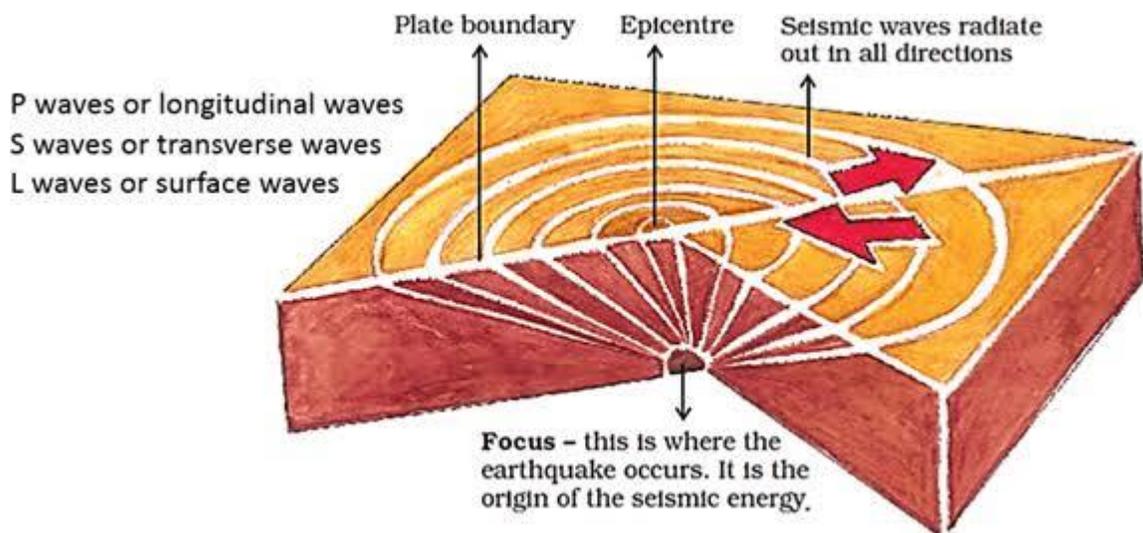


Character of Earthquake.

1. Earthquake has no fixed time.
2. This vibration can travel from one end of the earth to other.
3. Vibration may be low or high

What is Hypocentre

The location below the Earth surface
Where the earthquake starts.



What is Epicentre

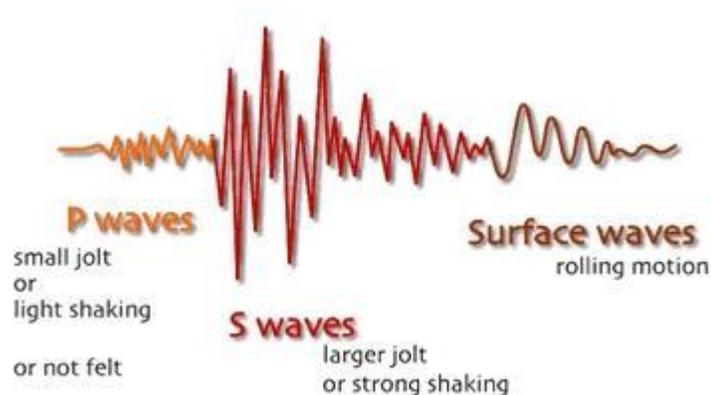
The point about the focus on the Surface of the earth.

What is Seismic wave

The waves of energy caused by the Sudden breaking of rock within the Earth.

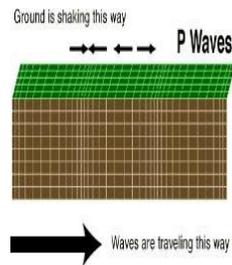
Type of Seismic waves

- 1.P-wave (primary wave)
- 2.S- wave (secondary wave)
3. L- Wave (Love wave)



1. Define primary wave

The first waves to arrive at a Seismograph.

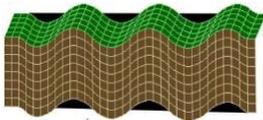


Character of P- (wave)

- A. Fastest Seismic wave.
- B. Move through solid, liquid, gas.

2. Define Secondary wave

Lateral waves that move side to side as a sine wave



Perpendicular to the direction of the wave.

Character of S-(wave)

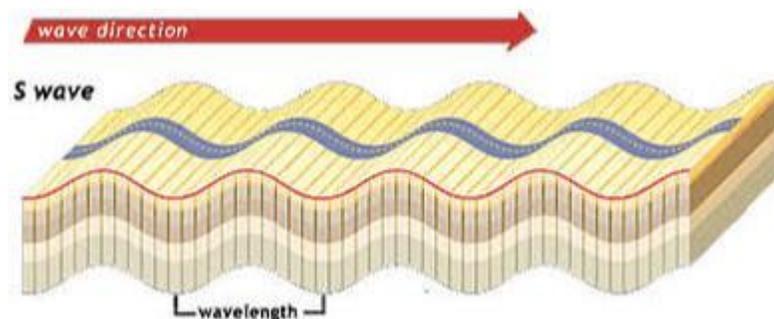
- A. Travel only through solids.
- B. Not move liquid, gas.

3. Define love wave

Love wave moving forward have horizontal back and forth motion.

Character of love wave

- A. Other name surface wave
- B. Move along the surface of the earth



Conclusion

The earthquake cause more damage and kill people destruction human buildings, rails, roads, bridges and Animal lives etc. Say that earthquake disaster is very dangerous for all living beings.