

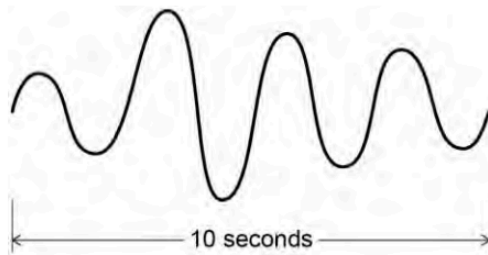
Q1.(2018)

a)

Seismometers on the Earth's surface record the vibrations caused by seismic waves.

Figure 16 shows the vibration recorded by a seismometer for one P-wave.

Figure 16



Calculate the frequency of the P-wave shown in **Figure 16**.

[1 mark]

Frequency = _____ Hz

b)

Write down the equation which links frequency, wavelength and wave speed.

[1 mark]

c)

The P-wave shown in **Figure 16** is travelling at 7200 m/s.

Calculate the wavelength of the P-wave.

[3 marks]

Wavelength = _____ m