

13 Sound from a small loudspeaker L reaches a point P by two paths which differ in length by 2.9 m. When the frequency of the sound is gradually increased, the resultant intensity at P goes through a series of maxima and minima. A maximum occurs when the frequency is 800 Hz and the next maximum occurs at 960 Hz.

What is the speed of sound in the medium between L and P?

- A 240 m s^{-1}
- B 340 m s^{-1}
- C 460 m s^{-1}
- D 2320 m s^{-1}