

- 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<sup>-1</sup>      **B** 340 m s<sup>-1</sup>      **C** 460 m s<sup>-1</sup>      **D** 2320 m s<sup>-1</sup>

- 14** White light is incident on a thin film of oil. The light is reflected. The light is reflected.