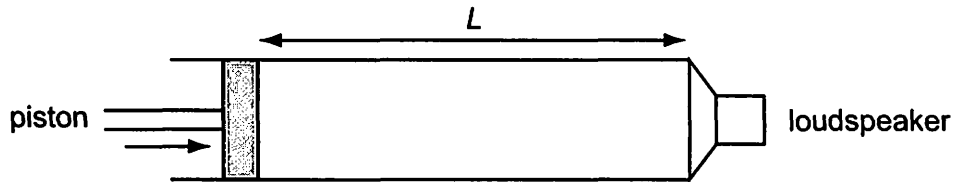


- 18 A tube is fitted with a piston and a loudspeaker is attached at one end. The loudspeaker emits sound of a constant frequency.



The piston is moved slowly to the right and the loudness of the sound peaks for values of L of 15 cm and 5 cm.

What is the frequency of the sound? (speed of sound = 330 m s^{-1})

- A** 1650 Hz **B** 2200 Hz **C** 3300 Hz **D** 6600 Hz

- 19 When two coherent waves combine constructively, the resulting displacement is equal to the sum of the individual displacements.