

4 waves aqa physics exam style questions

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In AQA Physics exams, students are often asked about different aspects of waves. Here are four exam-style questions with answers to help students prepare for their tests.

Question 1:

What is the difference between transverse and longitudinal waves? Give an example of each type of wave.

Answer:

- Transverse waves: The particles of the medium vibrate perpendicularly to the direction of wave propagation. Example: light waves.
- Longitudinal waves: The particles of the medium vibrate parallel to the direction of wave propagation. Example: sound waves.

Question 2:

A sound wave has a frequency of 500 Hz and a wavelength of 0.6 meters. Calculate the speed of the sound wave.

Answer:

Speed = Frequency \times Wavelength
Speed = 500 Hz \times 0.6 m
Speed = 300 m/s

Question 3:

Explain how the Doppler effect affects the frequency of a sound wave.

Answer:

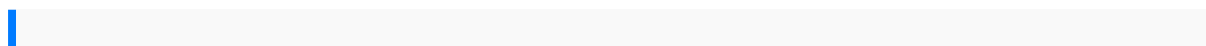
The Doppler effect is the change in frequency of a wave due to the relative motion between the source and the observer. When the source and observer are moving towards each other, the frequency increases. When they are moving away from each other, the frequency decreases.

Question 4:

A standing wave is formed on a string fixed at both ends. The wavelength of the standing wave is 0.4 meters. Calculate the distance between two consecutive nodes.

Answer:

Distance between nodes = $\lambda/2$ Distance between nodes = $0.4 \text{ m} / 2$ Distance between nodes = 0.2 m



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