

3.1 General Properties of Waves

Question Paper

Course	CIE IGCSE Physics
Section	3. Waves
Topic	3.1 General Properties of Waves
Difficulty	Medium

Time allowed: 10
Score: /5
Percentage: /100

Question 1

Water waves travel from deeper water to more shallow water. This causes them to refract.

Which wave property always remains the same when refraction occurs?

- A. Wavelength
- B. Frequency
- C. Amplitude
- D. Speed

[1 mark]

Question 2

Which of the following waves are longitudinal?

- A. Radio waves from a radio broadcaster.
- B. Infrared waves from an oven.
- C. Sound waves from a guitar.
- D. Water waves on a lake.

[1 mark]

Question 3

Which of the following statements about sound waves is incorrect?

- A. Sound waves are longitudinal.
- B. Sound waves transfer energy away from the source.
- C. Sound waves push air away from the source.
- D. Sound waves cause objects to vibrate.

[1 mark]

Question 4

The speed of a wave is doubled. The frequency remains the same.

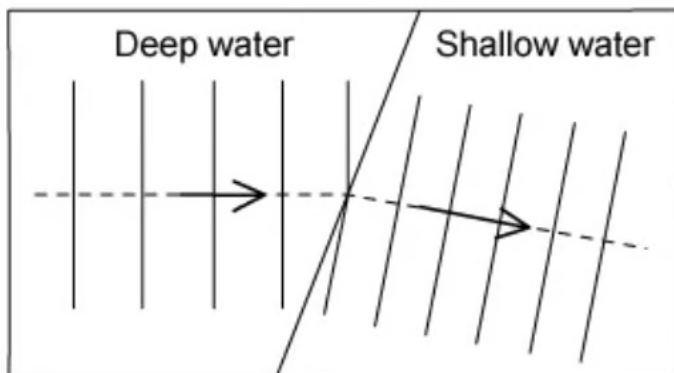
What happens to the wavelength of the wave?

- A. It doubles
- B. It halves
- C. It remains the same
- D. It becomes four times as large

[1 mark]

Question 5

When water waves travel from deeper water into more shallow water they are refracted.



Why does the wave change direction in the manner shown?

- A. The wave speed increases.
- B. The wave speed decreases.
- C. The frequency increases.
- D. The frequency decreases.

[1 mark]