

Name of the Student: _____

Max. Marks : 18 Marks

Time : 18 Minutes

Q1.

Explain how sound waves can be used to determine the depth of the ocean directly underneath a boat.

You may draw a diagram to help with your answer.

(6)

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(Total for question = 6 marks)

Q2.

Explain how sound waves can be used to determine the depth of the ocean directly underneath a boat.
You may draw a diagram to help with your answer.

(6)

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(Total for question = 6 marks)

Q3.

Explain how vibrations from earthquakes may be used to study the core of the Earth.

(4)

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(Total for question = 4 marks)

Q4.

The diagram in Figure 7 shows two students, P and Q, trying to measure the speed of sound in air.



Figure 7

P will clap his hands together.

When Q sees P clap his hands, she will start a timer.

When Q hears the clap, she will stop the timer.

Explain **one** way the students could improve their method.

(2)

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(Total for question = 2 marks)