

- 6 (a) The box lists some devices that can be used to transfer energy from one form into another.

an aerial	a loudspeaker	a microphone	a microwave oven
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Select a device from the box to complete each sentence.

(2)

Sound energy is changed into electrical energy using .....

Electrical energy is changed into sound energy using .....

- (b) A radio station uses a short wavelength radio wave for broadcasting information.

The wavelength is 25 m.

The frequency is 12 000 kHz.

- (i) State the relationship between the speed, frequency and wavelength of a wave.

(1)

- (ii) Calculate the speed of the short wavelength radio wave.

(3)

speed = ..... m/s

**(Total for Question 6 = 6 marks)**

DO NOT WRITE IN THIS AREA

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DO NOT WRITE IN THIS AREA

