

2 A remote control emits infrared waves to operate a television.



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(a) The television receives infrared waves and radio waves.

It emits light waves and sound waves.

Which type of wave has the highest frequency?

(1)

- ☐ A infrared
- ☐ B light
- ☐ C radio
- ☐ D sound

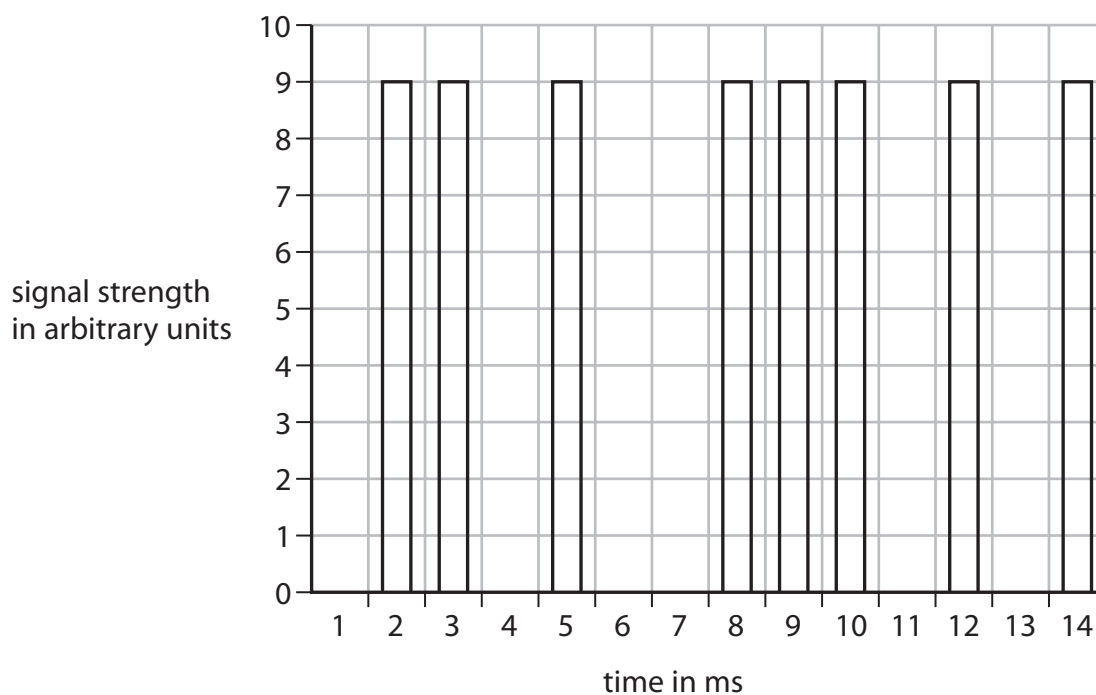
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- (b) The graph shows how the strength of the infrared signal from the remote control varies with time.



- (i) Explain how the graph shows that the infrared signal is digital.

(1)

- (ii) Suggest two ways that this signal could be made to carry more information.

(2)

1 .....

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2 .....

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**(Total for Question 2 = 4 marks)**

