

4 CD players use digital signals to transfer information.



Earlier systems using vinyl discs produced analogue signals.



(a) Describe the difference between digital signals and analogue signals.

(2)

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(b) Give **one** advantage of using digital signals.

(1)

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(c) A CD player is connected to this loudspeaker system.



The sound produced has a range of frequencies.

Use ideas about diffraction to explain why different frequencies require different sizes of loudspeaker.

(3)

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(Total for Question 4 = 6 marks)

