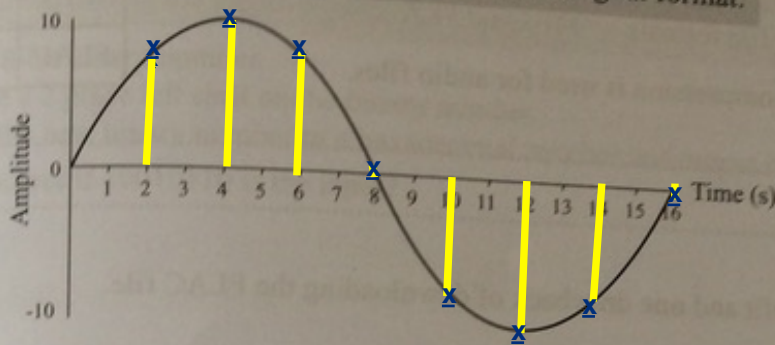


# Storing Sound

83

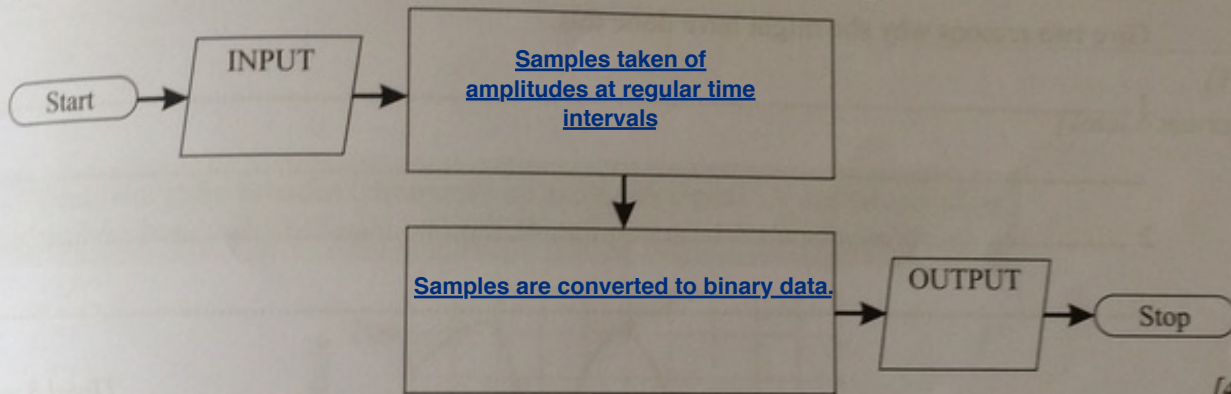
1 An analogue sound wave is being sampled to be stored in a digital format.



a) Add crosses to the sound wave above to show where samples would be taken if the sampling interval was 2 seconds.

[1]

b) Complete the flow diagram below to show the process of sampling.



[4]

[Total 5 marks]

2 Jade records herself reading two extracts from a novel to use in an audiobook. The bit rates and sampling frequencies of each recording are shown below.

	Length	Bit Rate	Sampling Frequency
Extract 1	2 minutes	128 kbit/s	32 kHz
Extract 2	2 minutes	320 kbit/s	44.1 kHz

a) Explain which extract would have the better sound quality.

Extract 2 would have a better sound quality.

This is because it has a larger bit rate and sampling frequency.

and these are indications of better overall sound quality.

[2]

b) Give one drawback of using extract 2 rather than extract 1 for the audiobook.

The file size will be larger.

[1]

[Total 3 marks]