2002 Paper 12 Question 3

Digital Communication I

Consider the real-time transport of audio across a network.

(a)	What are the advantages of digitising the audio?	[5 marks]
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- (b) What are the disadvantages and how can they be mitigated? [5 marks]
- (c) What characteristics of the end-to-end channel across the network would be desirable, and how are these different from those which would be desirable for time-insensitive data?
- (d) Discuss the applicability of asynchronous and synchronous multiplexing in carrying real-time audio traffic. [5 marks]