1996 Paper 1 Question 12

System Design

With modern technology, many pieces of equipment which we would describe as a 'computer' actually contain multiple hardware components, each performing fetchexecute cycles. However not all of these are always intended to be 'seen' by the programmer as part of the programming model. Define or explain the following:

(a)	The term	microprocessor.	[3 marks]
(b)	The term	programming model.	[3 marks]

- (c) The effects (or lack of them) on the programming model of having microprocessors imbedded in peripheral devices of a computer. [6 marks]
- (d) A programming model of an overt multiprocessor machine. [6 marks]
- (e) What type of system in production today is likely to have exactly one microprocessor inside? [2 marks]