

2001 Paper 6 Question 3

Digital Communication I

- (a) Define the terms *circuit* and *packet* in the context of communication systems. [5 marks]
- (b) What sort of guarantee does circuit switching provide? [5 marks]
- (c) What advantages does packet switching provide over circuit switching? [5 marks]
- (d) Which of *frequency division multiplexing*, *time division multiplexing* and *code division multiplexing* lend themselves to circuit switching? Which to packet switching? Explain why or why not in each case. [5 marks]