

2003 Paper 6 Question 3

Digital Communication I

- (a) Define the term *multiplexing* as applied to communication systems. [4 marks]
- (b) Describe *three* types of multiplexing, identifying in each case
- (i) mechanisms by which symbols are associated with particular channels;
 - (ii) mechanisms by which transmitters are assigned channel resource;
 - (iii) characteristics of the multiplexed channels;
 - (iv) applications which are suited to the type of multiplexing. [16 marks]