

2002 Paper 13 Question 3

Digital Communication I

Define a *resource* in a digital communication system as anything whose use by one instance of communication prevents simultaneous use by another. Channel capacity is one example.

- (a) Give *two* more examples of resource in digital communication systems. [4 marks]
- (b) For the three resources, indicate how the amount of total resource can be increased. [6 marks]
- (c) How are allocations of each of these resources to instances of communication performed? [10 marks]