

1995 Paper 12 Question 3

Digital Communication I

Compare the functions of a *MAC level bridge* with an *IP router*. In what circumstances is it more appropriate to use one than the other? [6 marks]

Discuss the tables inside both bridges and routers used to control the acceptance and forwarding of packets. Indicate both how these tables are used and how information is put in the tables. How quickly can the tables be searched in each case? [10 marks]

What features might be added to a router or bridge to improve some aspects of network security? [4 marks]