

2009 Paper 8 Question 5

Digital Communication II

- (a) Shared media networks make use of Media Access Control protocols to allocate resources.
- (i) Outline the use of CSMA/CD on Ethernets. [5 marks]
 - (ii) Outline the use of CSMA/CA on Wireless Ethernets. [5 marks]
- (b) Discuss the trade-offs between network resource pre-allocation and network resource contention-based schemes in terms of delays and throughput under varying traffic loads. [10 marks]