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1E7902**1E7902**

M.Tech. I Semester Back Examination, 2009
Computer Science & Engineering
9CPC02 High Speed Networks

Time : 3 Hrs.**Max. Marks :80****Min. Passing Marks : 27****Attempt any five questions.****Marks of questions are indicated against each question.**

- Q.1(a) What is the principle difference between connection oriented communication and connectionless communication? 8
- (b) Why does ATM use small, fixed-length cells? Explain the ATM reference model? 8
- Q.2(a) What is the flow control problem? What are the three types of flow-control schemes? 8
- (b) Explain any two multicast routing protocols? 8
- Q.3(a) What is the main difference between TCP and UDP? 8
- (b) Explain the general principles of congestion control? 8
- Q.4(a) Explain the various techniques for achieving good quality of services in ATM? 8
- (b) What are the various issues in the management of large networks? 8
- Q.5(a) Explain the Distance Vector Multicast Routing protocol? 8
- (b) Explain the integrated service model and differentiated service model? 8
- Q.6(a) Why most of the Multicast routers use a technique known as reverse path forwarding? 8
- (b) Explain the SNMP protocol in detail. 8
- Q.7(a) Explain the Abstract Syntax Notation (ASN) for SNMP message encoding. 8
- (b) Compute the optional window size when packet size is 53 bytes, the RTT is 60ms and the bottleneck bandwidth is 1.5Mbps. 8+8
- Q.8(a) Write short notes on the following 4 X 4 =16
- (a) Scheduler
- (b) ATM Virtual Circuits
- (c) Multicasting
- (d) Congestion Management
- (e) Packet Classifiers and Fitters