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USN

First Semester M.Tech. Degree Examination, June 2012 Computer Networks

Time: 3 hrs.

Max. Marks:100

1 111	10. 5	Note: Answer any FIVE full questions.	
1	a. b. c.	What is layering? Describe the relationship and list of protocols used in each learchitecture. Define sockets, explain the list of socket functions for API. Calculate the total time required to transfer a 1.5 MB file in the following cases an RTT of 80 ms, a packet size of 1 KB data and initial 2 × RTT of "hand shak data is sent if the bandwidth is 10 Mbps and data packets can be sent continuous	(08 Marks) (08 Marks) (3. Assuming ting" before
2	a. b.	List the different type of network links explain, with suitable example. Explain the datagram and virtual circuit switching, with suitable example.	(10 Marks) (10 Marks)
3	a. b. c.	Define and explain the spanning tree algorithm, in detail. Explain in detail, the packet cell format of ATM architecture. Describe switch fabrics and explain the types.	(05 Marks) (05 Marks) (10 Marks)
4	a. b.	Explain the packet format of IPV4 packet header and the fragmentation and with respect to IP protocol. Derive link state routing algorithm and how it differ from distance vector, with	(10 Marks)
5	a. b. c.	The state of the s	(05 Marks) (05 Marks) byte stream (10 Marks
6	a. b. c.	Explain the RTP header format.	(08 Marks) (06 Marks) ol. (06 Marks)
7	a.	List the different techniques for congestion. Avoidance, explain the example.	(10 Marks)

Important Note: 1. On completing your answers, pulsorily draw diagonal cross lines on the remaining blur uges.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

a. HTTP (Hyper Text Transport Protocol)

b. Explain any four integrated services (RSUP).

- b. SIP(Session Initiation Protocol)
- c. Simple Network Management Protocol
- d. Overlay Networks.

(20 Marks)

(10 Marks)