USN 1 M 5 C 6 L E C 1 3

NEW SCHEME

First Semester M.Tech. Degree Examination, Dec. 06 / Jan. 07

Advanced Computer Networks

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Time: 3 hrs.] Note: Answer any FIVE full questions. [Max. Marks:			
,•	2	a . b.	Define multiplexing. Explain time division multiplexing technique. How does it differ from multiple access? Describe the Ethernet frame structure along with the significance of each field. (10 Marks)
	3	a. b.	With block diagram explain three generations of packet switches. (15 Marks) Explain rate controlled scheduling discipline for guaranteed service connections. (05 Marks)
•	4 .	a . b.	Explain SONET system and its frame structure. (10 Marks) Explain encapsulated protocol data unit (EPDU) of AAL3/4 and AAL5. (10 Marks)
-	5	a. b.	With a neat sketch explain IP header format. (10 Marks) Explain the structure of ATM layer. (10 Marks)
2.	6	(1) h	What is traffic model? Explain different categories of traffic model. (10 Marks) Describe M[M]1 basic multiplexer model with the help of M[M]1 K queue and state transition diagram (10 Marks)
	7	• a. b.	With an example explain distance vector routing algorithm. (10 Marks) Mention different flow control schemes and explain any one. (10 Marks)
	8	a.	What are the advantages of rate congestion control over window congestion control (08 Marks)
- <u>ئ</u> ـ		(b)	Describe statistical procedures for specifying traffic and quality of service and for controlling the network. (12 Marks)