

[Total No. of Questions - 8] [Total No. of Filled Pages - 2]
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- 0 DEC 2015

M. Tech 1st Semester Examination
Design of Data Communication Networks
EC-103

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt any five questions.

1. (a) Differentiate between LAN, WAN & MAN. (10)
(b) What are the different standard creation committees, forums and government regulatory agencies? Explain their roles. (10)
2. (a) Explain the importance of presentation & application layer in OSI model. (10)
(b) How TCP/IP model is different from OSI model? (10)
3. (a) Explain different types of ATM layers. (10)
(b) Explain architecture of an ATM network. (10)
4. Explain why x.25 was not so successful among organisations. What lead the organizations to go for frame delays? Justify your answer. (20)
5. (a) Give comparison of different medium access control protocols. (10)
(b) Explain salient features of token ring. (10)

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6. (a) Explain the block diagram of TDMA systems. (10)
(b) Explain token ring & FDDI. (10)
7. Describe in detail the addressing structure of IPV6. (20)
8. Write short notes on:
(a) Windows operating systems.
(b) Firewalls.
(c) Error control coding techniques.
(d) Packet switching. (5×4=20)