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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech (ECE) (Sem.-1)

DATA COMMUNICATION NETWORK

Subject Code : EC-503

Paper ID : [E0563]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

- Q1. a) What is Multiplexing and its types? Explain the difference between TDM and STDM in detail.
- b) Explain the various transmission media in detail.
- Q2. What is difference between error detection and correction? Explain digital CRC in detail with the help of example.
- Q3. a) Explain the design issues of data link layer.
- b) Discuss about the mobile IP33N in detail.
- Q4. Explain the Architecture and working of ATM. Also discuss header error control operation of receiver.
- Q5. What are advantages of IPv6 over IPv4 ? Describe three IPv6 special addresses.
- Q6. What is OSI model? Describe the TCP/IP and X.25 protocols models.
- Q7. a) Explain the communication networks in detail.
- b) Discuss in detail about the medium access control protocols.
- Q8. Write a short note on **any two** :
- a) FDDI
- b) DQDB
- c) Firewalls