Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 01

Total No. of Questions : 08

M.Tech (ECE)   (Sem.–1)
DATA COMMUNICATION NETWORK
Subject Code : EC-503
M.Code : 36204

Time : 3 Hrs.   Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :
1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1. a) What is Network operating system? Explain the Mobile IP33N operating systems in detail.

    b) What are convergence and challenges in ATM networks? Discuss in detail.

2. a) What are the different types of transmission impairments for the guided media? Explain in detail.

    b) Define the switching in data communication network and explain the types of switching in detail.

3. a) Discuss the Data Link Control in data communication network in detail.

    b) What are security issues? Explain the network security in detail.

4. a) Define OSI model and explain each layer of OSI model in detail.

    b) Explain Medium Access control protocols in detail.

5. a) What is Multiplexing? Discuss about the differences between Synchronous TDM and Statistical TDM in detail.

    b) Explain the Error detection and correction techniques in data communication network in detail.

6. a) Explain the various transmission media in data communication networks in detail.

    b) Discuss intrusion detection system in the network security in detail.

7. a) What is inter-networking? Explain it in detail.

    b) Discuss about Bit oriented and character oriented protocol in detail.

8. Explain the followings in detail :

    a) IP addressing

    b) LAN/MAN technologies

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.