

Unit-II

4. (a) What are the different codes present in the data communication for transferring data? Explain the ASCII code. 10
- (b) Explain the Distance Direct Dialling Network. 10
5. Discuss in detail the various serial and parallel interfaces. 20

Unit-III

6. Explain in detail synchronous and asynchronous protocols with suitable frame diagrams. 20
7. Explain the following in detail : 20
- (a) ISDN
- (b) Ethernet.

Unit-IV

8. What is the use of CIDR in Addressing? Make the subnets using CIDR for IP address 192.168.1.1/27. 20
9. Write short note on : 20
- (a) Firewall
- (b) COMBO chips.

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DATA COMMUNICATION**Paper-ECE-407-F***Time allowed : 3 hours]**[Maximum marks : 100*

Note : Question No. 1 is compulsory. Attempt one question from each unit.

1. (a) Explain BER. 4
- (b) Differentiate between Intranet and Extranet. 4
- (c) Differentiate between DPSK and PSK. 4
- (d) What do you understand by error control? 4
- (e) Explain Token Pass ring? How it works? 4

Unit-I

2. (a) Draw and explain the block diagram of clock recovery in FSK modulation System. 10
- (b) Explain the DPSK transmitter and receiver with the help of neat diagram. 10
3. (a) What does the Shannon capacity have to do with communication? Calculate the maximum bit rate for the noiseless channel with a bandwidth 3000Hz transmitting a signal with two signal levels. 10
- (b) Draw and explain the basic block diagram of Digital Communication System. 10