B.Tech. 7th Semester (F) Scheme (ECE) Examination,

December-2018

DATA COMMUNICATION

Paper-ECE-407-F

Time allowed : 3 hours]   *[Maximum marks : 100*

*Note : **Question no. 1 is compulsory.** Attempt any **one** question from each section.*

1.   (a)   What is FSK ?   5

      (b)   Explain DDD network ?   5

      (c)   What is Ethernet ?   5

      (d)   What do you mean by Line encoding ?   5

Section-A

2.   (a)   Draw and explain the block diagram of Digital Communication System.   10

      (b)   What do you mean by PSK ? Explain the process of PSK with diagram.   10

3.   (a)   Explain the process of Trellis encoding in detail.   10

      (b)   Explain the process of Digital Amplitude modulation.   10

Section-B

4. (a) Explain different standard organization for data communication.   10

    (b) What do you mean by Error control technique ? Explain any one method of Error control.   10

5. (a) Explain RS 232 Serial Interface in detail.   10

    (b) Differentiate between Asynchronous and Synchronous Modems.   10

Section-C

6. (a) Explain ISDN and its working in detail with diagram.   12

    {b) Explain the process of Token pass ring.   8

7. (a) What do you mean by public data networks ? Explain   10

    (b) Differentiate between Asynchronous and synchronous protocols.   10

Section-D

8. (a) Explain CCITT time division multiplexed career system in detail.   10

    (b) Explain the process of frame synchronization in TDM.   .10

9. Write short notes on :   20

    (a) World Wide Web

    (b) Firewall

    (c) CODECS

    (d) Interleaving