

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) (Sem.-5)
COMPUTER NETWORKS

Subject Code : CS-303

Paper ID : [A0465]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION A

I. Write briefly :

- a) What is the spectrum of a signal?
- b) What is the Nyquist theorem?
- c) What is the significance of the twisting in twisted-pair cable?
- d) Why is frequency modulation superior to amplitude modulation?
- e) What is DCE?
- f) What is the purpose of a guard band in FDM?
- g) What is packet switching?
- h) What are the advantages of DSSS?
- i) How does a single bit error differ from a burst error?
- j) What is a peer-to-peer process?

SECTION B

2. List the important features of EIA-449.
3. Compare packet switching and circuit switching.
4. Explain the NRZ-I encoding method with example.
5. Compare the features of VRC and LRC.
6. Differentiate between FSK and ASK.

SECTION C

7. Given a 10 bit sequence 1010011110 and a divisor of 1011, find the CRC. Check your answer.
8. Explain the functions of various layers of OSI model.
9. Compare the important features of DSSS and FHSS with examples.