

Roll No.

Total No. of Pages : 2

Total No. of Questions : 09

B.Tech. (CSE) (Sem.-5)
COMPUTERS NETWORKS
Subject Code : CS-303
Paper ID : [A0465]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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 has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Write briefly :
 - a. What is digital signal ? Give example.
 - b. What is digital data transmission? Give example.
 - c. What is FDM?
 - d. What is the requirement of MODEM in digital communication?
 - e. Difference between step index and graded index fiber.
 - f. Explain the term core and cladding.
 - g. What is unguided media? Give one example?
 - h. Differentiate between Single bit error and Burst error.
 - i. Explain unshielded and shielded twisted pair cable.
 - j. What is Switching? Give example.

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SECTION-B

2. Explain various transmission impairments in detail.
3. What is Spread spectrum? Write down the advantages and disadvantages of FHSS system.
4. Explain CRC method for error detection.
5. What is packet switching and write down the advantages of packet switching over circuit switching?
6. What is X.21? What are the various signals provided by it?

SECTION-C

7. What do you mean by DTE and DCE? Explain with pin diagrams of EIA-449 interface.
8. Explain in detail about OSI reference model.
9. Write short note on any two :
 - a) LRC
 - b) DSL
 - c) WDM