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Total No. of Pages : 2

Total No. of Questions : 09

B.Tech. (CSE/IT) (Sem.-4)
DATA COMMUNICATION
Subject Code : CS-206
Paper ID : [A0460]

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) Compare LAN and MAN.
- b) What are the disadvantages of bus topology?
- c) What is a protocol?
- d) What is the difference in UTP and STP cable?
- e) List the different error detection codes.
- f) What is a hamming distance?
- g) What is IEEE 802.14 standard?
- h) Compare switch and router.
- i) Define the term collision in data communication.
- j) What is a firewall?

SECTION-B

2. Explain the process of signal transmission in optical fiber.
3. How ALOHA is different from slotted ALOHA?
4. Compare IEEE standard 802.3 and 802.4.
5. Explain the working of leaky bucket congestion control algorithm.
6. How TCP is different from UDP? Which of the two protocols is more favorable for real time applications and why?

SECTION-C

7. Compare OS1 and TCP/IP models.
8. Explain the working of Sliding Window flow control using diagram.
9. Write short note on :
 - a) DNS
 - b) Email