



Mid Term (Odd) Semester Examination October 2024

Roll no.....

Name of the Course and semester: B.tech.(CSE) 7th sem

Name of the Paper: Computer Networks-II

Paper Code: TCS 703

Time: 1.5 hour

Maximum Marks: 50

Note:

- (i) Answer all the questions by choosing any one of the sub questions
- (ii) Each question carries 10 marks.

Q1. (10 Marks)

a. Discuss the difference between Global and decentralized routing algorithm. Write the example of each with explanation? CO1

OR

b. Discuss link cost changes and adding poisoned reserve methods with help of Distance vector algorithm? CO1

Q2. (10 Marks)

a. Differentiate between Link state routing and Distance vector Routing with example? CO1

OR

b. Write one example each of Intra-AS routing and Inter-state AS routing methods? CO1

Q3. (10 Marks)

a. Discuss the important difference between implementing the broadcast abstraction via multiple unicast, and a single network-(router) supported broadcast? CO1

OR

b. Suppose datagram are limited to 1500 bytes (including header) between source Host A and destination Host B. Assuming a 20 byte IP header ,how many datagrams would be required to send and MP3 consisting of 4 million bytes ? CO1

Q4. (10 Marks)

a. The code word is received as 1100 1001 01011 .check whether there are errors in the received code word, if the divisor is 10101.(the divisor corresponds to the generator polynomial) ? CO2

OR

b. Calculate CRC for the frame 110101011 and the generator polynomial $=X^4 + X + 1$ and write the transmitted frame? CO2

Q5. (10 Marks)

a. Discuss the various Link layer switches in details .What are the various properties of link layers switching? CO2

OR

b. Discus the problem associated with switch LAN .what is the method used to overcome the drawback of switch LAN ? CO2