BCA   (Sem.–6)
COMPUTER NETWORKS
Subject Code : BSBC-603
M.Code : 71212
Date of Examination : 04-01-2023

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 SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.**

SECTION-A

1. **Answer briefly :**

    a) Compare digital and analog transmission.

    b) What is meant by De-multiplexing in networking?

    c) Differentiate MAN and WAN.

    d) Compare OSI and TCP/IP model.

    e) What is Frequency spectrum in communication?

    f) Define PPP protocol.

    g) Discuss CSMA/CD/CA.

    h) Write a short note on congestion control policies.

    i) Write the function of gigabit Ethernet.

    j) Define concept of Internetworking.

SECTION-B

2. What are the different topologies in networks? Write their advantages and disadvantages.

3. a) Discuss in brief Synchronous and Asynchronous modulation in Digital communication.

   b) Compare and contrast message switching and packet switching.

4. What do you mean by wireless transmission? Explain the use of Infrared and Bluetooth transmission with example.

5. What are the responsibilities of the data link layer? Explain the process of error detection and recovery in data communication.

6. Explain the IEEE Token Bus and Ring standards used in computer networks.

7. What is the purpose of Network Layer? Name different Routing algorithms and write a short note on anyone.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.