

BACHELOR OF TECHNOLOGY (CBCS - 2023)
B. Tech. Sem-II Information Technology : WINTER: 2025
SUBJECT: COMPUTER COMMUNICATION & NETWORKS

Day : Friday
Date : 28/11/2025

W-27745-2025

Time : 10:00 AM-01:00 PM
Max. Marks : 60

NB :

1. Assume suitable data, if necessary.
2. Draw neat labelled diagrams WHEREVER necessary.
3. Figures to the right indicate FULL marks for the question.
4. All questions are COMPULSORY.

Q. 1 What is Data communication. Explain components of Data communication and Data flow in brief. (10)

OR

Q. 1 Define LAN, MAN, and WAN. How do they differ in terms of scope and functionality? (10)

Q. 2 Draw TCP/IP architecture. Explain all layers of TCP/IP model in brief. (10)

OR

Q. 2 What is addressing? Describe its types in detail. (10)

Q. 3 What is Switching? Enlist it's types and explain any one Switching technique in brief. (10)

OR

Q. 3 Define Transmission media and it's types in detail. (10)

Q. 4 Enlist and explain all networking devices in brief. (10)

OR

Q. 4 How do error control and flow control mechanisms work in the Data Link Layer? Explain. (10)

Q. 5 Describe the purpose of ICMP error reporting and query messages. (10)

OR

Q. 5 What is internetworking, and how does it facilitate communication between different networks? (10)

Q. 6 Differentiate between User Datagram Protocol (UDP) and Transmission Control Protocol (TCP). (10)

OR

Q. 6 Describe Domain Name System (DNS) and how it resolves domain names to IP addresses. (10)
