

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

Day : Friday
Date : 30/05/2025

S-27745-2025

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

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat diagrams **WHEREVER** necessary.

- Q. 1 Describe various network types. Explain with suitable case study. (10)
- OR
- Q. 1 What is Line coding? Explain with suitable example. (10)
- Q. 2 Draw and explain TCP/IP protocol suite. (10)
- OR
- Q. 2 Define Internet. Explain connection-oriented network in detail. (10)
- Q. 3 What is switching? Describe types of Switching in detail. (10)
- OR
- Q. 3 Describe Guided media in detail. (10)
- Q. 4 Describe Backbone Networks. Enlist and explain types of backbone networks in detail. (10)
- OR
- Q. 4 What are Networking devices? Explain various networking devices with suitable example. (10)
- Q. 5 Define Routing. Describe forwarding techniques of routing in detail. (10)
- OR
- Q. 5 What is Internet Protocol? Differentiate between IPv4 and IPv6. (10)
- Q. 6 What is world wide web? Explain working of www with suitable case study. (10)
- OR
- Q. 6 Describe TCP congestion control with suitable example. (10)
