

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE) (Sem.-5)
COMPUTER NETWORKS

Subject Code : BTCS504-18

M.Code : 78323

Date of Examination : 29-11-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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 have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) Define protocol and standard in networking.
- b) What is time division multiplexing?
- c) Name two types of error detection techniques.
- d) Explain in brief about Block coding.
- e) What is an IP address?
- f) Define the function of ARP in networking.
- g) State any two differences between TCP and UDP.
- h) What is the role of a firewall?
- i) Define DNS and its use.
- j) Mention two characteristics of spread spectrum.

SECTION-B

2. Explain Connecting LAN and Virtual LAN in detail.
3. Explain Go-Back-N ARQ and Selective Repeat ARQ with diagrams.
4. What is IPv6? How is it different from IPv4?
5. Write a detailed note on Transmission Control Protocol (TCP).
6. Write a short note on SNMP.

SECTION-C

7. Write a detailed note on various Transmission Media in detail.
8. **Explain in detail about following algorithms :**
 - a) Leaky Bucket
 - b) Token Bucket
9. **Write a detailed note on following :**
 - a) FTP
 - b) HTTP

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.