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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (ECE)(Sem.-6)
COMPUTER NETWORKS
Subject Code : BTCS-504-18
M.Code : 79374
Date of Examination : 30-04-2025

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. Explain the following:

- a) Define Ethernet.
- b) What is Hamming Code?
- c) What is Flow Control?
- d) Write main differences between TCP and UDP.
- e) Define Quality of Services.
- f) Describe WWW.
- g) List the advantages of Computer Networks.
- h) Discuss the functioning of bridge and router.
- i) Define checksum for error checking.
- j) What is Parity Checking?

SECTION - B

2. What is transmission media? Explain different forms of transmission media.
3. How CRC is used in error detection? Explain in detail with help of example.
4. Explain four ways of handshaking methods to terminate a connection in TCP.
5. What is ARP? Explain function of ARP
6. What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 255.255.255.224 subnet mask?

SECTION - C

7. Write a short note on circuit switching, packet switching and message switching.
8. What is framing? Explain the various methods of framing and what the problems Associated with each method are.
9. **Write a detailed note on :**
 - a) Stop and wait ARQ Sliding window protocol.
 - b) CSMA/CA

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.