

Roll No.

Total No. of Pages : 02

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B.Tech. (ECE) (Sem.-6)  
**COMPUTER NETWORKS**  
Subject Code : BTCS/504/18  
M.Code : 79374  
Date of Examination : 06-05-2024

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) Protocol
- b) HDCP
- c) WWW and E-mail
- d) Subnetting
- e) Use of DNS
- f) PPP protocol
- g) Bus and Star topology
- h) Congestion control
- i) RS 232C
- j) Fiber Optic cable.

## SECTION-B

2. Explain various types of transmission impairments.
3. Explain the four way process of handshaking to terminate the connection in TCP.
4. Discuss various CSMA protocols.
5. Describe how leaky bucket protocol is used for congestion control?
6. Explain stop and wait ARQ mechanism.

## SECTION-C

7. Write a detailed note on link state routing protocols.
8. Explain the distance vector routing protocols. What are its major drawbacks?
9. Explain in detail error detection and correction control methods.

**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.**