

Roll No. 

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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 : 07-12-2023

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) Explain in brief about spread spectrum.
- b) What are the primary advantages of using Wave Division Multiplexing?
- c) Explain the term Piggybacking in brief.
- d) What is Error? Explain types of error.
- e) What is ARP and what is its primary function?
- f) What is an IP address and how is it structured in IPv4?
- g) What is UDP and how does it differ from TCP in terms of reliability?
- h) Explain in brief about Quality of service.
- i) Explain in brief about the term Bluetooth.
- j) What do you mean by Cryptography? Discuss.

## SECTION-B

2. Explain Optical Fibre Cable transmission media in detail along with their Advantages and Disadvantages.
3. Explain how errors are detected using CRC?
4. Differentiate between IPV4 and IPV6.
5. Write a detailed note on SCTP Congestion Control.
6. Write a detailed note on TELNET and FTP.

## SECTION-C

7. Write a detailed note on following Multiplexing Techniques :
  - a) Frequency division
  - b) Time Division
8. Explain in detail about following protocols :
  - a) Pure ALOHA
  - b) Slotted ALOHA
9. Write a detailed note on Transmission control Protocol (TCP).

**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.**