

Roll No.

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 : 16-07-22

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. What is the need of presentation layer?
- b. List few applications layer protocols.
- c. What is Checksum?
- d. What is message switching? ,
- e. Why do we need RARP?
- f. Define BOOTP.
- g. What is meaning of reliability in TCP?
- h. What is MAC address?
- i. Define DDNS.
- j. What is IDS?

## SECTION-B

2. Why do we need multiplexing? Discuss Frequency Division multiplexing.
3. Explain the CSMA/CD protocol used at MAC layer. Does it reduce the number of collisions?
4. Discuss the functionality of network layer. How logical addressing is done at this layer?
5. Define Congestion. How Stream control Transmission protocol works?
6. Discuss the working of DNS protocol with the help of a suitable example.

## SECTION-C

7. Explain the different guided and unguided media used at physical layer for data transmission.
8. What is sliding window protocol? Discuss the advantages and disadvantages of using piggybacking.
9. Write a short note on :
  - a. TCP vs UDP
  - b. FTP.

**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.**