Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CSE)   (Sem.–5)

COMPUTER NETWORKS

Subject Code : BTCS-504-18

M.Code : 78323

Date of Examination : 04-01-2023

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) Write the advantages of Bus network topology.

   b) Define the term Multiplexing.

   c) What do you mean by Hamming Distance? Explain.

   d) Explain in brief about Pure ALOHA.

   e) Explain the term RARP.

   f) Explain in brief about the term DHCP.

   g) Explain briefly the effects of Congestion.

   h) What are the characteristics of Quality of Service (QoS)?

   i) Explain the term WWW in brief.

   j) What do you mean by Cipher Text in reference to cryptography?

SECTION-B

2. Differentiate between Wired and Wireless Networks in detail.

3. Write a detailed note on CSMA/CD.

4. What is IP addressing? How it is classified? Also briefly explain about subnets.

5. Write a detailed note on Leaky Bucket Algorithm.

6. Explain in detail about Firewalls.

SECTION-C

7. Write a detailed note on Transmission Media.

8. Write a detailed note on Link State Routing Protocol.

9. **Explain the following terms in detail :**

   (a) DDNS

   (b) HTTP

   (c) Bluetooth

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.