

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Information Technology) (Sem.-4)

COMPUTER NETWORKS

Subject Code : BTIT-401-18

M.Code : 77538

Date of Examination : 12-07-22

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 topology and types of topology?
- b) Give a note on concept of spread spectrum.
- c) What is VLAN?
- d) What is the use of ALOHA protocol?
- e) What is meant ARP?
- f) Differentiate IPV4 with IPV6.
- g) Why Leaky Bucket is used?
- h) Discuss the functioning of cryptography.
- i) What is Domain Name Space?
- j) Write about SNMP.

SECTION-B

2. Discuss the role of multiplexing in data communication.
3. Explain the central concept of Hamming Distance. How it is used in error detection?
4. What is Unicast route? Write about any one algorithm used in it.
5. How CSMA/CA protocol is used to avoid the collision in networks?
6. What is meant by congestion control? How it is controlled?

SECTION-C

7. Discuss in brief the performance parameters used in transmission media.
8. Why is QoS important in Networking? Discuss some QoS improving techniques?.
9. Explain the role of Firewalls in Computer Networks. How it is used to secure the system?

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.