

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (Software Engineering) (Sem.-3)

COMPUTER NETWORKS

Subject Code : SE-302-19

M.Code : 78676

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

Write briefly :

- 1) What are protocols and standards?
- 2) What is network bandwidth utilization?
- 3) How does virtual LAN work?
- 4) What is the purpose of CRC?
- 5) What is IPv6 in networking?
- 6) What is DNS and why it is used?
- 7) Write the use of SNMP.
- 8) What is TCP protocol and how does it work?
- 9) What is sliding window?
- 10) How does congestion control work?

SECTION-B

- 11) What are the five different network topologies?
- 12) Write a short note on OSI Model.
- 13) Explain the role of Firewalls in Computer Networks.
- 14) How Cryptography is used to enhance security in Computer Networks?
- 15) Write a short note on Token Bucket Algorithm.

SECTION-C

- 16) Explain various transmission media used in computer networks for wireless connection?
- 17) Discuss concept of Hamming Distance. Explain the use of hamming distance for error detection.
- 18) What are the relationships between the flow control and error control in TCP protocol?

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.