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.