Roll No. ....

24328

B. Tech. 6th Semester (CSE)

Examination – May, 2019

COMPUTER NETWORK

Paper : IT-305-F

Time : Three Hours]   *[Maximum Marks : 100*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions in all, selecting *one* question from each Section. Question Number **1** is *compulsory*. All questions carry equal marks.

1. Write a short note on the following :

  (a) Computer Network   5

  (b) Transmission control protocol   5

  (c) Overview of IP V6   5

  (d) Fast Ethernet & Gigabit Ethernet   5

SECTION – A

2. (a) What is OSI Reference model ? Explain each layers in detail.   15

  (b) Explain various types of Networks.   .5

24328-6100-(P-3)(Q-9)(19)   P. T. O.

3. Write a short note on :   20

  (a) Bus & Ring Topology

  (b) ARPANET

  (c) Private Network

SECTION – B

4. (a) Explain TCP/IP Model with its various layers in detail.   10

  (b) Briefly explain :   10

      1. ARP   2. RARP   3. SMTP   4. HTTP

5. Briefly explain :   20

  (a) RARP

  (b) ICMP

  (c) FTP & HTTP

  (b) Domain name system

SECTION – C

6. (a) What is Local Area Network ? Explain various features and components of LAN.   10

  (b) Explain various channel access methods in detail.   10

7. (a) How routing plays Wide Area Network ? What are the various WAN Technologies ?   12

  (b) Briefly explain Distributed Queue Dual Bus (DQDB).   8

24328-6100-(P-3)(Q-9)(19)   (2)

SECTION – D

8. Briefly explain :   20

   (a) Synchronous Digital Hierarchy (SDH)

   (b) Synchronous Optical Network (SONET)

   (c) Frame Relay

9. Write a short note on :   20

   (a) IP address

   (b) Security Management

   (c) Client-Server Infrastructure

   (d) Remote Monitoring Techniques