

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

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

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
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