

Roll No.

24328

B. Tech. 6th Semester (CSE)

Examination – May, 2016

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 : Q. 1 is compulsory. Attempt one question from each section. All questions carry equal marks.

1. Explain the following : 5 × 4 = 20

(a) RARP

(b) ATM

(c) DQDB

(d) ARPANET

SECTION - A

2. What is a computer network ? Explain the types of computer networks and its topologies in detail. 20
3. Explain the working of OSI model with Proper Diagram. 20

SECTION - B

4. (a) What do you mean by Transmission Control Protocol Header ? Explain in detail. 10
- (b) Explain the IPV4 and IPV6. What is the difference between IPV4 and IPV6 ? 10

5. Explain various Application Layer Protocols of TCP/IP.

SECTION - C

6. (a) Explain IEEE802 Standards in detail. 10
- (b) What do you mean by CSMA collision detection. Explain ? 10
7. Explain various WAN Technologies in detail. 20

SECTION - D

8. (a) What is Remote Monitoring Technique ? Explain in Detail. 10
- (b) What do you mean by Synchronous Digital Hierarchy Synchronous Optical Network ? Explain 20
9. (a) Explain the following :
- (i) Firewall
 - (ii) Proxy Server
 - (iii) VLAN
 - (iv) Client Server Infrastructure