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B. Tech. (CSE) 6th Semester Examination – May, 2015

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 five questions in all, selecting one question from each Sections. Question No. 1 is compulsory.All questions carry equal marks.

1. Explain the following:

 $5 \times 4 = 20$

- (a) ARP
- (b) Proxy Server
- (c) Token Ring
- (d) Types of Network

SECTION - A	
2. (a) What is ARPANET? Explain in detail.	10
(b) Explain different types of Topologies with advantages and disadvantages.	
and disadvantages.	10
3. Describe the working of OSI model with P	roper
Diagram.	20
SECTION - B	
4. (a) Differentiate between OSI and TCP/IP Model	. 10
(b) Explain the IP addressing and IP Address Cla	sses.
	10
5. Explain various Application Layer Protocols TCP/IP.	of
ICI/IF.	20
SECTION - C	
6. (a) Explain LAN Interconnecting devices in detail.	10
(b) What do you mean by CSMA collision detection	ion
Explain?	10
7. Explain Routing and Congestion control in detail.	20

SECTION - D

- **8.** (a) What is a Remote Monitoring Technique? Explain in Detail.
 - (b) What do you mean by Synchronous Digital Hierarchy/Synchronous Optical Network? Explain.
- **9.** Explain the following:

 $5 \times 4 = 20$

- (i) ATM
- (ii) Firewall
- (iii) VLAN
- (iv) Windows NT/2000

(3)