

Roll No.

24328

B. Tech. 6th Semester (ECE)

Examination – May, 2014

COMPUTER NETWORK

Paper : IT-305-E

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. Q. 1 is *compulsory*. Select *one* question from each Section.

- 1 (a) Differentiate between LAN, WAN, MAN.
(b) What is DNS ? Explain.
(c) What is Token ring ? Explain.
(d) How quality of services are managed in network ?
(e) Explain Fast Ethernet and Gigabit Ethernet.

SECTION – A

2. Define computer network ? What is network topology ?
Explain it with their advantages and disadvantages.
3. Explain the ISO-OSI reference model in details.

SECTION – B

4. (a) What is protocol ? How it work ? Discuss its types (IP,TCP,UDP).
(b) What do you mean by IP addressing ? How it is classified ? How is subnet addressing performed.
5. (a) What is IPv6 ? Explain the frame structure of IPv6.
(b) What do you mean by E-Mail System ? Explain.

SECTION – C

6. Explain :
(i) ALOHA (ii) DQDB
7. (a) What is CSMA protocol ? Explain the different version of CSMA protocol ? Discuss the role of CSMA/CD.
(b) What do you mean by congestion ? How we control the congestion? Explain.

SECTION – D

8. Explain :
(i) ATM (ii) Frame Relay
 9. Explain the following :
(i) Polling
(ii) Proxy Servers
(iii) Traps
(iv) VLAN
(v) Network OS
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