

Roll No. 976

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.

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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