

24251

B.Tech. 5th Semester Information Technology-VI

Examination December-2013

COMPUTER NETWORK

Paper-IT-305-F

Time allowed : 3 hours]

[Maximum marks :100

Note : Question no. 1 is compulsory. Attempt one question from each section. All questions carry equal marks.

1. Explain the following :

(a) WAN

(b) SMTP

(c) DQDB

(d) Proxy server. 20

Section-A

2. Explain the topologies, types of topologies with their advantages and disadvantages. Also explain the difference in different types of topologies. 20

3. (a) Explain in detail OSI model. 10

(b) Write a note on ARPANET. 10

Section-B

4. (a) Write a note on :

(i) ARP

(ii) RARP 10

(b) What is DNS and explain the architecture of DNS? 10

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5. (a) Explain the following :

(i) SMTP (ii) POP 10

(b) Explain IPV4 and IPV6. What is the difference between IPV4 and IPV6 ? 10

Section-C

6. (a) Explain in detail LAN interconnecting devices with diagram. 10

(b) What is routing and explain routing techniques? 10

7. (a) What is aloha also explain the pure aloha and slotted aloha ? 10

(b) Write a note on CSMA.. 10

Section-D

8. (a) Write a note on ATM. 10

(b) Explain Frame relay. 10

9. (a) What is a remote monitoring technique Explain in detail ? 10

(b) What is client server infrastructure? Explain in detail. 10