

Reg. No. ....

B.E. / B.TECH END SEMESTER EXAMINATION, OCT/NOV. 2011

ELECTRONICS AND COMMUNICAITON ENGINEERING

VI SEMESTER - R 2004

**EC383 COMPUTER NETWORKS**

29

Time : 3 Hr.

Max. marks : 100

**Part – A (10 x 2 = 20 marks)**

Answer all Questions.

1. Compare and contrast the telephone network and internet.
2. What is meant by logical address ?
3. What is scrambling ? Specify its merits.
4. What is the significance of the twisting in twisted-pair cable ?
5. What do you mean by service level agreement ? Also specify the congestion control technique perform this function.
6. Define gateways.
7. What is Address Resolution Protocol (ARP) ?
8. What is Virtual Private Network (VPN) ?
9. Define Domain Name System (DNS) ?
10. What is called S - box ?

**Part – B (5 x 16 = 80 marks)**

11. (i) Explain the architecture of the TCP/IP reference model with neat diagram. (10)  
(ii) Explain packet switching technique. (6)
12. (a) Explain in detail the HDLC protocol.  
(Or)  
(b) Explain the sliding window flow control mechanism and compare its link utilization with stop and wait protocol.
13. (a) Explain with neat sketch of transparent and source routing bridge.  
(Or)  
(b) Explain the collision free protocols in detail.
14. (a) (i) Explain the IPV4. (8)  
(ii) What is the need of ICMP messages? Also explain different types of ICMP messages. (8)  
(Or)  
(b) Explain the link state routing in detail and compare it with distance vector routing.
15. (a) Write short notes on (i) FTP (ii) HTTP (iii) UDP (iv) TELNET  
(Or)  
(b) Explain in detail the Data Encryption algorithm (DES).

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