



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - COMPUTER SC.

THIRD SEMESTER – NOVEMBER 2011

CS 3816 - NETWORK PROGRAMMING

Date : 08-11-2011
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

Part-A

Answer all the questions

10X2=20

1. Write down the criteria's necessary for an effective and efficient network?
2. List the advantages of BUS topology.
3. Define the term checksum.
4. Give any two differences between MAC and IP address
5. What is address resolution protocol?
6. Draw the block diagram of DHCP.
7. Why the congestion occurs in network?
8. Draw the packets in transit during slow start.
9. Write down the function of SMTP.
10. What is cryptography?

Part-B

Answer all the questions

8X5=40

11. a. List the categories of UTP and explain
(OR)
b. Name all the basic network topologies and explain any two with a neat diagram
12. a. Write down the procedure to assign static IP.
1. (OR)
b Explain in brief about packet internet gopher.
13. a What is RARP? Explain the concept of ARP and RARP with program.
1. (OR)
b Write a program to illustrate the shortest routing path in network.
14. a. Explain in short about any two mechanism of congestion control.
1. (OR)
.b Explain any one queuing discipline with a program and an example
15. a. Write about the HTTP request methods.
1. (OR)
b. What is firewall? List out the limitations of firewall

Part-C

Answer any two questions

2X20=40

16.a) Explain the types of network with example and real time scenarios.

b) List down the differences between OSI and TCP/IP

17.a) Discuss in detail about any two network protocols

b) Give a detailed description of congestion avoidance mechanism.

18.a)Elaborate the concept of DNS with examples

b)Discuss the topic “Network in today’s life”.
