LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - **COMPUTER SCIENCE**

THIRD SEMESTER – **NOVEMBER 2013**

CS 3813 - TCP/IP PROTOCOL

Date : 06/11/2013   Dept. No. [   ]   Max. : 100 Marks
Time : 1:00 - 4:00

Section – A (10 X 2 = 20 Marks)

Answer all Questions
1. Define supernetting.
2. What do you mean by Unicast and Multicast?
3. Define TTL.
4. What is the use of Output Queue in IP Package?
5. What is ephemeral port number?
6. Define Segment.
7. What is TSN in SCTP?
8. What is flowcontrol?
9. What is TFTP?
10. What is HTTP?

Section – B (5 X 8 = 40 Marks)

Answer all Questions

11 a) Explain in brief about subnetting.

Or

b) List out the importance of all the fields in a RARP Packet.

12 a) How ICMP Query messages are helpful in diagnosing network problems ?

Or

b) Explain in brief about the MTU of IP

13 a) Write about the Silly Window Syndrome.

Or

b) With the neat sketch explain in brief the User Datagram format.

14 a) Write the general features of SCTP.

Or

b) How the flow of control is maintained in SCTP?

15 a) Write about the Five types of TFTP messages.

Or

b) Explain in brief about the two FTP connections.

Section – C (2 X 20 = 40 Marks)

Answer any TWO Questions

16 a) Explain the structure of a Router with a diagram.
   b) Describe about the Checksum calculation in IP

17 a) Explain in detail about Congestion control in TCP.
   b) Draw the SCTP Packet Format and Explain it

18 a) Explain the structure of a Router with a diagram.
   b) How the forwarding concept is adopted in IP? Explain in detail about it.

****