 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

THIRD SEMESTER – NOVEMBER 2012

# CS 3813 - TCP/IP PROTOCOL

 Date : 03/11/2012 Dept. No. Max. : 100 Marks

 Time : 9:00 - 12:00

**Section – A**

 **Answer all Questions: (10 X 2 == 20 Marks)**

1. Define Internetworking Protocol
2. What do you mean by Unicast and Multicast?
3. Define Fragmentation.
4. What is the use of Output Queue in IP Package?
5. What do you mean by connectionless service in UDP?
6. Define Segment.
7. Define Multiple Stream in SCTP.
8. What is SSN?
9. Define SNMP.
10. What is HTTP?

**Section – B**

 **Answer all Questions: (5 X 8 == 40 Marks)**

 11 a) Explain in brief about subnetting.

 Or

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

 12 a) Write about the IGMP message types.

 Or

 b) Write in brief about the Option Field in the Datagram

1. a) Write about the Silly Window Syndrome.

Or

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

1. a) Write the services offered by SCTP.

Or

 b) Compare between TCP segment and a SCTP Packet

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

Or

 b) Explain in brief about the two FTP connections.

**Section – C**

 **Answer any TWO Questions: (2 X 20 == 40 Marks)**

1. a) Explain in detail about forwarding of IP packets with classful and

 Classless addressing.

b) Describe about the Checksum calculation in IP

1. a) Explain in detail about Congestion control in TCP.

b) Explain how the Error Control Mechanism is done in SCTP.

1. a) Explain in detail the phases of mail message transfer in SMTP.

b) Explain the structure of a Router with a diagram.

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