

**MCA 4th Semester Examination, 2013**

**COMPUTER NETWORKS LAB**

**PAPER – CS-MCA-409**

*Full Marks : 100*

**Answer any one question selecting  
it by a lucky draw**

- 1. Create a TCP client which sends and receives some data to a TCP server.**
- 2. Create a TCP server which handles incoming data from clients and echoes them back.**
- 3. Write a program to create a UDP echo client.**
- 4. Write a program to create a UDP echo server.**
- 5. Write a program to demonstrate broadcasting by creating broadcast sender only.**

*( Turn Over )*

( 2 )

6. Write a program to demonstrate broadcasting by constructing broadcast receiver only.
7. Write a program to create a multicast sender that multicast UDP datagram to a specific multicast address every five seconds.
8. Write a program to create a multicast receiver which joins a specified group, receives and prints a single multicast message from that group.

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Marks Distribution

Write :

1. Brief Description of Problem – 10 %
2. Program listing – 40 %
3. Result and Discussion – 30 %
4. Viva – 20 %