

**Total Pages—5**

**PG/IVS/MCA-409/16(Pr.)**

**MCA 4th Semester Examination, 2016**

**NETWORK LAB**

**( Practical )**

**PAPER—MCA - 409**

***Full Marks : 100***

***Time : 3 hours***

**Answer any one on lottery basis**

***The questions are of equal value***

- 1. Write a client side script which communicates with a server, sends the server a message and receives whatever it sends and display it. Use transmission control protocol to construct your client.**

**( Turn Over )**

2. **Construct a server which responds when a client sends it a message. The server simply echoes back every text it obtains to the specific client. Use transmission control protocol to construct the server.**
  
3. **Write a client side script which asks for the current date and time to a UDP server. When the server sends the client the specific data, the client displays it. Use user datagram protocol to implement the client.**
  
4. **Construct a UDP server which sends present date and time when a client communicates with it via port no. 4567. Use user datagram protocol to construct the server.**
  
5. **Write a program to construct a broadcast sender which broadcasts a message "Hello World".**

( 3 )

6. Write a program to construct a broadcast receiver which accepts the message broadcasted by the broadcast sender.
7. Write a program to demonstrate multicast sender.
8. Construct a multicast receiver which joins a specified group, receives and prints a single multicast message from the group.

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PNB : 10

Viva : 20

**Marks Distribution**

1. Brief description of the problem : 20%
2. Program listing : 50 %
3. Result and discussion : 30 %.