

2017**MCA****4th SEMESTER EXAMINATION****NET WORK LAB****PAPER—MCA-409****(Practical)***Full Marks : 100**Time : 3 Hours**The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.**Illustrate the answers wherever necessary.**Answer any one question on Lottery basis. 1×70*

1. Write a program to construct an echo client using TCP.
2. Write a program to construct a TCP echo server to handle an echo client.
3. Write a program to construct an echo client using UDP.
4. Write a program to construct a UDP echo server to handle an echo client.

(Turn Over)

5. Write a program to construct a server side script which broadcasts a message from a certain port.
6. Write a program to construct a broadcast receiver.
7. Write a program to demonstrate multicast sender.
8. Write a program to demonstrate multicast receiver.
9. Write a program to accept an IPv4 address in dotted decimal form and determine its class.
10. Write a program to accept an IPv4 address in dotted decimal form and determine its default mask value.

PNB : 10 marks

Viva Voce : 20 marks

Marks Distribution

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