

M.Sc. 1st Semester Examination, 2019

COMPUTER SCIENCE

(*Network Lab*)

(*Practical*)

PAPER –COS-192

Full Marks : 50

Time : 2 hours

The figures in the right-hand margin indicate marks

Answer any **one** questions(on **lottery** basis) : 35

1. Construct an echo server using TCP.
2. Construct an echo client using TCP.
3. Write a program to construct a UDP server which receives a message from a client and sends back the same to *the client*.

4. Write a program to create a UDP client which is able to send to and receive message from a UDP echo server.
5. Write a program to construct a server which can broadcast a message every ten seconds.
6. Write a program to construct a client which can receive messages provided by a broadcast sender.
7. Write a program to demonstrate a multicast sender.
8. Write a program to construct a client which joins a group to receive a message sent to that group by a multicast sender.
9. Write a program to determine the network address of an IP address using default mask.
10. Write a program to determine the class of an address.

(3)

Distribution of Marks

Program	: 10
Execution	: 20
Discussion and Accuracy	: 05
Viva voce	: 10
PNB	: 05
<hr/>	
Total	: 50
<hr/>	