

2017**M.Sc.****1st Semester Examination****COMPUTER SCIENCE****PAPER—COS-105****Subject Code—26****[Practical]***Full Marks : 50**Time : 2 Hours**The figures in the right-hand margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.**Illustrate the answers wherever necessary.***(Network Lab.)**Answer any *one* question (Lottery basis).

1×35

1. Write a server side script to construct an echo server using a connection-oriented protocol.
2. Write a client side script to construct an echo client which communicates with an echo server using a connection-oriented protocol.
3. Write a server side script to construct an echo server using a connection-less protocol.

(Turn Over)

4. Write a client side script to construct an echo client which communicates with an echo server using a connection-less protocol.
5. Construct a broadcast sender which broadcasts a specified message.
6. Construct a broadcast receiver which accepts a message from a broadcast sender.
7. Write a program to demonstrate multicast sender.
8. Write a program to demonstrate multicast receiver.
9. Write a UDP server side program that provides the current date when communicated through a certain port.
10. Write a program which receives an IP address as input and determines the class of that address.
11. Write a program which receives an IP address and determines the net id and host id using default mask.
12. Write a program to construct a server which receives an integer and sends the square of that integer when communicated via Port No. 1234.

Viva Voce — 10 Marks

Practical Note Book — 05 Marks
