

**2019**

**MCA**

**4th Semester Examination**

**Network Lab**

**PAPER – MCA-409**

**Full Marks : 100**

**Time : 3 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.

Answer any **TWO** question ( on lottery basis.)

**35X2=70**

1. Write a program in C to create a client which Communicates with an echo server. Use transmission Control Protocol to do so.
2. Construct an echo server using TCP. The server should provide the echo service via Port no. 4567.
3. Write a program in C to construct a server using UDP. The Server should repeatedly accept and send back a string to the communicating clients.
4. Write a program in C to construct a UDP Client which communicates with a UDP echo server.
5. Write a program to demonstrate broad cast sender.
6. Write a program in C to create a broad cast receiver.
7. Write a program in C to create a server which is able to send message to a specific user group.
8. Write a program to create a receiver which, as a part of group, can receive a message, sent to that group.
9. Write a program in C to accept an IP address and determine the class of that IP Address.

$$\begin{bmatrix} PNB - 10 \\ VVA \quad 20 \end{bmatrix}$$