

# Faculty of Informatics

## MCA Semester IV

### ~~LCC451~~ – Computer Networks Lab

#### Question Bank

AY- 2020-2021

1. Understanding and using of commands like ifconfig, netstat, ping, arp
2. Understanding and using of commands like telnet, ftp, finger, traceroute, whois.
3. Socket Programming: Implementation of Connection-Oriented Service using standard ports.
4. Implementation of Connection-Less Service using standard ports.
5. Implementation of Connection-Oriented Iterative Echo-Server, “Hello” using user-defined ports.
6. Implementation of Connectionless Iterative Echo-server, “Hello” using user-defined ports (Hello Server).
7. Implementation of Connection-Oriented Iterative Echo-Server, “Hello” using user-defined ports(Hello Server).
8. Implementation of Connection-Oriented Iterative date and time, character generation using user-defined ports(Hello Server).
9. Implementation of Connectionless Iterative date and time, character generation using user-defined ports.
10. Implementation of Connection-Oriented Concurrent date and time, character generation using user-defined ports.
11. Program for connection-oriented Iterative Service in which server reverses the string sent by the client and sends it back.
12. Program for connection-less Iterative Service in which server reverses the string sent by the client and sends it back.
13. Program for connection-oriented concurrent Service in which server reverses the string sent by the client and sends it back.
14. Program for connection-oriented Iterative service in which server changes the case of the strings sent by the client and sends back (Case Server).
15. Program for connection-less Iterative service in which server changes the case of the strings sent by the client and sends back (Case Server).

16. Program for connection-oriented concurrent service in which server changes the case of the strings sent by the client and sends back (Case Server).
17. Program for connection-oriented Iterative service in which server count the characters of a word sent by the client and sends back (Character count Server).
18. Program for connection-less Iterative service in which server count the characters of a word sent by the client and sends back (Character count Server).
19. Program for connection-oriented concurrent service in which server count the characters of a word sent by the client and sends back (Character count Server).
20. Program for connection-oriented Iterative service in which server finds the factorial of a number sent by the client and sends back (Factorial Server).
21. Program for connection-less Iterative service in which server finds the factorial of a number sent by the client and sends back (Factorial Server).
22. Program for connection-oriented concurrent service in which server finds the factorial of a number sent by the client and sends back (Factorial Server).
23. Program for Connection-Oriented Iterative service in which server calculates the net-salary of an employee based on the following details sent by the client i) basic ii) hra iii) da iv) pt v) epf vi)  $\text{net-salary}=\text{basic}+\text{hra}+\text{da}+\text{pt}+\text{epf}$ .
24. Program for Connection-less Iterative service in which server calculates the net-salary of an employee based on the following details sent by the client i) basic ii) hra iii) da iv) pt v) epf vi)  $\text{net-salary}=\text{basic}+\text{hra}+\text{da}+\text{pt}+\text{epf}$ .
25. Program for Connection-Oriented concurrent service in which server calculates the net-salary of an employee based on the following details sent by the client i) basic ii) hra iii) da iv) pt v) epf vi)  $\text{net-salary}=\text{basic}+\text{hra}+\text{da}+\text{pt}+\text{epf}$ .
26. Implementation of students grade server.
27. Program for file access using sockets.
28. Program for Remote Command Execution using socket .
29. Implementation of DNS.
30. Implementation of authentication server