DCS-1-02P: Operating Systems Lab

Total Marks: 50
External Marks: 35
Internal Marks: 15
Credits: 2
Pass Percentage: 40%

Course: Operating Systems Lab
Course Code: DCS-1-02P
Course Outcomes (COs)
After the completion of this course, the students will be able to:

CO1	Understand Basics of UNIX/LINUX
CO2	Demonstrate the installation process of various operating systems.
CO3	Apply UNIX/LINUX operating system commands.
CO4	Understand different UNIX/LINUX shell scripts
CO5	Implement and execute various shell programs.

Detailed List of Programs:

Programme No.	Name of Program
P1	Install UNIX/LINUX – Complete Step by Step
P2	Study of Basic UNIX Commands and various UNIX editors such as vi, ed, ex and EMACS
P3	Write a shell script that deletes all lines containing the specified word in one or more files Supplied as arguments to it.
P4	Write a shell script that displays a list of all files in the current directory to which the user has read, write and execute permissions
P5	Write a shell script that receives any number of file names as arguments checks if every argument supplied is a file or directory and reports accordingly. Whenever the argument is a file it reports no of lines present in it
P6	Write a shell script that accepts a list of file names as its arguments, counts and reports the occurrence of each word that is present in the first argument file on other argument files.
P7	Write a shell script to list all of the directory files in a directory

P8	Write a shell script to find factorial of a given number
P9	Write an awk script to count number of lines in a file that does not contain vowels
P10	Write an awk script to find the no of characters ,words and lines in a file
P11	Implement in C language, the following Unix commands using system calls a) cat b) ls c) mv
P12	Write a C program that takes one or more file/directory names as command line input and reports following information
P13	Write a C program to list every file in directory, its inode number and file name
P14	Write a C program to create zombie process
P15	Write a C program to illustrate how an orphan process is created
P16	Write client server programs using c for interaction between server and client process using Unix Domain sockets