*SESSION-5*

Q.1 >Create a new directory named 'etc' inside 'official' directory.

Q.2 >Create copy of the entire directory location named 'official/data' under 'official/etc

Q.3 >Remove all the files and subdirectories from the location 'official/etc/corporate'. Also remove 'corporate' directory.

Q.4 >Remove all the files from 'official/etc/branch'

Q.5 >Remove directory 'branch' located inside 'official/etc' location

Q.6 >Change the shell prompt to 'UNIX>'

Q.7 >Show the list of all the environment variables

Q.8 >Show the HOME directory name for the current user

Q.9 >Show the current search PATH

Q.10 >List the information about process currently running on the processor.

Q.11 >Write the command to terminate a process whose process id is known

Q.12 >Write the command to send an email to a user whose login name is 'manager'

Q.13 >Write the command(s) to view emails from your mailbox

Q14 >Start online conversation with a currently logged in user named 'student' working on terminal 'pty/2'

Q.15 >Disable write message feature for your terminal

Q.16 >Store the result of arithmetic expression -"(1234%10)+6" into a variable named RESULT

Q.17 >Use UNIX calculator 'bc' to find factorial of any number.

## *SESSION-6*

Q.1 >List the information about all currently logged in user along with the information that whether write permission is enabled for those terminals or not.

Q.2 >Get the information such as machine name, server name, and UNIX version for the machine where UNIX is running.

Q.3 > What is the use of 'type' command? Find the locations of commands like ls, clear,

Q.4 >Find the information about disk usage.

Q.5 > Find the information about free disk space.

Q.6 > Change the permission for 'cstudent.dat' file located in 'official/data/corporate' to following:-

for user -- read, write
for group -- read
for others --none

Q.7 > Sort the contents of 'exstudent.dat' in descending order on the 'year of passing' field.(4 th field refer to question 2 of session-3)

Q.8 > Sort the contents of 'student.dat' in ascending order on their roll nos.

Q.9 > Sort the contents of 'student.dat' in descending order on their course name and ascending order on their roll nos. Store the sorted record in a new file named 'student.sort'

Q.10 > Count the number of records in student.sort file

## *SESSION-7*

Q.1 >Count the number of words and lines in the file 'cstudent.dat'

Q.2 > Find the students who have passed their courses in the year'1999' from the file 'exstudent.dat'

Q.3 > Count the number of directories at the location'/bin'

Q.4 > Count the number of terminals where user 'student' is currently logged in

Q.5 > List all those student's records from 'student.dat' who are not studying in M.Tech course

Q.6 > Show only roll number and student name of each student from 'cstudent.dat'

Q.7 > Submit the file 'allstudents.dat' for printing on printer.

Q.8 > Cancel a print job whose job id is known

Q.9 >Mount the cdrom drive ('/dev/cd0') in the directory '/mnt'

Q.10 >Format a raw disk of 1.44mb capacity in the drive 0

Q.11 > Display your terminal number

Q.12 > Show current date and time

Q.13 >Show the contents of file 'ls' located in '/bin' in octal form

Q14.> Show the calendar of current month

Q15. > Use comm, cmp and diff commands to compare any two almost similar file and mention the differences in their output

SESSION-8

*UNIX ASSIGNMENTS IN SHELL PROGRAMMING*

Q.1 > Find the number of users working in the system. Also find whether a user is currently logged in or not.

Q.2 > Find sum of digits of a given integer. Find reverse of digits of a given number.

Q.3 > Find greatest of three numbers.

Q.4 > Check whether a given string is palindrome or not.

Q.5 > Check whether a given year is leap year or not.

Q.6 > Generate first 15 prime numbers and also check whether a given number is prime or not.

Q.7 > Convert a given binary number into decimal & vice-versa.

Q.8 > Write a program to count number of words, white spaces, characters, vowels, constant in a given string.

Q.9 > Count the number of words of five character length.

Q.10 > Write a program to sort numbers using bubble sort.

Q.11 > Write program to sort numbers using selection sort.

Q.12 > Write a program to calculate G.C.D of given two numbers.

Q.13 > Write a program to find roots of a given quadratic equation.

Q.14 > Write a program to check whether a given number is an Armstrong number or not.

Q.15 > Write a program to print the reverse of a given string.