

Q1. A) Write and execute the following Commands on Linux

- i) Create a 2 directories RDBMS and CO. Move these directories to directory FYBCA.
`mkdir RDBMS CO`
`mkdir FYBCA`
`mv RDBMS CO FYBCA`
- ii) Create a file File1.txt and display all information about file.
`touch File1.txt`
`ls -l File1.txt`
- iii) Create a file and sort the file by suppressing repeated lines.
`echo -e "line1\nline2\nline1\nline3\nline2" > file.txt`
`sort -u file.txt`
- iv) Create a file and merge the contents into single line with each line separated by tab.
`echo -e "line1\nline2\nline3\nline4\nline5" > file.txt`
`paste -s file.txt`
- i) Create a file by Input devices.txt with least 5lines long using vi editor's input commands and try the following using Vi commands. Moves the cursor down one line
`vi "Input devices.txt"`
`j`

Q1.B) Write a shell script to view contents of a file preceding with line numbers.

```
#!/bin/bash
if [ $# -ne 1 ]; then
    echo "Usage: $0 <filename>"
    exit 1
fi
if [ ! -f "$1" ]; then
    echo "File $1 does not exist."
    exit 1
fi
nl "$1"
```

Q2. Write menu driven program to perform the following tasks

- a) Displaying contents of file
- b) Copying file into another file
- a) Displaying files in directory

Or

Q2. Write a shell script to display first 10 odd numbers and their sum.

```
#!/bin/bash sum=0
echo "First 10 odd numbers:"
for ((i = 1; i <= 19; i += 2)); do
    echo $i
    sum=$((sum + i))
done
echo "Sum of the first 10 odd numbers: $sum"
```