

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

- i) Create a directory named FYBCA under that create three sub-directories CO, RDBMS and OS.

```
cd fybca
mkdir RDBMS
mkdir CO
mkdir OS
```

- ii) Create text file a.txt which contains rollno, name, class and percentage using Linux command.

```
101 John FYBCA 85
102 Alice FYBCA 78
103 Bob FYBCA 92

Ctrl + Z
```

- iii) Sort the data of a.txt on field percentage in ascending order.

```
Sort -k4 a.txt
```

- iv) Display count of students of FYBCA Class in a.txt

```
Wc -l a.txt
```

- v) Write VI command to delete first n lines.

```
Vi a.txt
n dd
```

Q1. B) Write a shell script to find area of rectangle.

```
#!/bin/bash

echo "Enter the length of the rectangle:"
read length
echo "Enter the breadth of the rectangle:"
read breadth

area=$((length * breadth))

echo "The area of the rectangle is: $area"
```

Q2. Write a shell script to check whether given number is odd or even.

```
#!/bin/bash
echo "Enter a number : "
read n
rem=$(( $n % 2 ))
if [ $rem -eq 0 ]
then
    echo "$n is even number"
else
    echo "$n is odd number"
fi
```

OR

Q2. Write menu driven program to perform the following tasks :

- a) Show today's date and time
- b) Show files in current working directory.
- c) Show calendar

```
#!/bin/bash
echo '\tMenu Implementation'
echo -----
echo 1.Today DATE
echo 2.files of the system
echo 3.Show calendar
echo Enter your choice
read choice
case $choice in
1)date;;
2)ls;;
3)cal;;
*)echo This is not a choice
esac
```