**General Instructions:**

* **Follow the instructions given in each section.**
* **Make sure that you attempt the questions in order.**

**SECTION-A (10\*1 mark=10 marks)**

***(All questions are compulsory)***

1) Which command is used to display a list of currently running processes in Linux?

**a.** **ps**

b. bg

c. fg

d. nice

2) Which command is used to start a suspended job in the background in Linux?

a. ps

**b.** **bg**

c. fg

d. nice

3) Which command is used to bring a background job to the foreground in Linux?

a. ps

b. bg

**c.** **fg**

d. nice

4) Which command is used to set the priority of a process in Linux?

a. ps

b. bg

c. fg

**d.** **nice**

5) What is the range of values for the nice command in Linux?

**a.** **-20 to 20**

b. -10 to 10

c. -5 to 5

d. -100 to 100

6) Which value of nice represents the highest priority in Linux?

a. -20

b. 0

c. 10

**d.** **20**

7) Which value of nice represents the lowest priority in Linux?

**a.** **-20**

b. 0

c. 10

d. 20

8) Which command is used to display the priority of a process in Linux?

**a.** **ps**

b. bg

c. fg

d. nice

9) Which command is used to change the priority of a running process in Linux?

**a.** **renice**

b. kill

c. pkill

d. top

10) Which option of the renice command is used to set the priority to the highest value in Linux?

a. -n 20

b. -n 0

**c.** **-n -20**

d.-n 10

**SECTION-B (5\*2 mark=10 marks)**

***(All questions are compulsory)***

11) Which option of the renice command is used to set the priority to the lowest value in Linux?

**a.** **-n 20**

b. -n 0

c. -n -20

d. -n 10

12) Which command is used to display the current CPU usage of all running processes in Linux?

a. ps

**b.** **top**

c. htop

d. nice

13) Which command is used to kill a running process in Linux?

a. ps

b. bg

c. fg

**d.** **kill**

14) Which option of the kill command is used to forcefully kill a process in Linux?

**a.** **-9**

b. -15

c. -1

d. -2

15) Which command is used to send a signal to a running process in Linux?

**a.** **kill**

b. renice

c. top

d. ps

**SECTION-C() (4x5 marks=20 marks)**

Q16) What is a shell script in linux?

A shell script is a text file containing a series of commands that are executed by the shell program in Linux.

These commands can be written on the Linux terminal but in order to automate the whole process of execution of these commands, we use shell scripts as the help to automate this process.

Q17) What is the difference between shell script and shell command in linux?

A shell command is a single command that is executed from the command line. Cd, ls, pwd, mkdir, rmdir, echo etc. all these commands individually are called as Shell commands.

A shell script is a text file containing a series of commands that are executed by the shell program in Linux.

Q18) Create a directory named test\_shell. In this directory create a shell file named sub\_file.sh . In this shell script take input of two numbers from the user and give the difference of the two numbers as output of the shell file execution.

mkdir test\_shell

cd test\_shell

touch sub\_file.sh

vi sub\_file.sh

!#/bin/bash

read num1

read num2

echo $((num1 - num2))

:wq

Q19) Create a directory named test\_shell. In this directory create a shell file named div\_file.sh. In this shell script take input of two numbers from the user and give the division of num1 by num2 as output of the shell file execution.

mkdir test\_shell

cd test\_shell

touch div\_file.sh

vi div\_file.sh

!#/bin/bash

read num1

read num2

echo $((num1 / num2))

:wq