**Roll No…………….. Total No. of Pages:……**

**Linux System Administration**

**Time allowed: 90 Minutes Max. Marks: 40**

**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)***

**Q.1.** Among the following command which is used with vi editors to delete a single character?

A) a

B) **x**

C) y

D) z

**Q.2.** Identify the command which is used to remove directories.

A) rd

B) remove

C) **rmdir**

D) rdir

**Q.3.** In which of the following directory does the configuration files are present?

A) **/etc/**

B) /dev/

C) /bin/

D) /root/

**Q.4.** Which command is used to display the operating system name

A) wc

B) **uname**

C) countw

D) os

**Q.5.** Identify the command which is used to display the Linux version.

A) uname -n

B) kernel

C) uname -t

D) **uname -r**

**Q.6.** What type of installations requires a special boot disk?

A) FTP

B) NFS

C) PCMCIA

D) **All of the above**

**Q.7.** Which of the following command is used to change the working directory?

A) **cd**

B) changed

C) chdr

D) dr

**Q.8.** Which option of rmdir command will remove all directories a, b, c if path is a/b/c

A) –b

B) –o

C) **–p**

D) –t

**Q.9.** Linux is which kind of Operating System?

A) Multi User

B) Multi Processes

C) Multi Tasking

D) **All of the mentioned**

**Q.10.** Which of the following commands will allow the user to search contents of a file for a particular pattern

A) touch

B) **grep**

C) find

D) ls

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

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

**Q.11.** To display index number in first column we use \_\_\_\_\_\_ command.

a) ls -p

b) **ls -li**

c) ls -r

d) ls -R

**Q.12.** Select command which will create file of specific timestamp (19 August 1996 23.12.21).

a) touch -t 19August1996231221

b) touch -p 19August1996231221

c) touch -d 199608192312.21

d) **touch -t 199608192312.21**

**Q.13.** Choose the correct command to copy 2 files from pwd to test directory

a) cp file1.txt file2.txt /home/test/file.txt

b) **cp file1.txt file2.txt /home/test/**

c) cp file1.txt || file2.txt /home/test/

d) none of the above

**Q.14.** Choose the correct command to move all the files ending with extension .doc, from pwd to target

a) mv .\*doc /home/target/

b) **mv \*.doc /home/target/**

c) mv \*.\*doc /home/target

d) mv .\*doc\* /home/target

Answer: B

**Q.15.** Which of the following command is used to set read, write & execute permission for user, group & other

a) chmod 777 file.txt

b) chmod a+rwx file.txt

c) chmod u=rwx,g=rwx,o=rwx

d) **all of the above**

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

**Q.16.**

create 5 text files naming (filea to filee)

create a file abc.txt with specific timestamp (17 July 1990, 11hrs 12mins 55secs) (1mark)

change access time of abc.txt to current timestamp

change modification time of abc.txt to specific timestamp (200202020202)

check full timestamp of file abc.txt

**Ans:**

1. touch file{a..e}.txt

2. touch -t 199207171112.55 abc.txt

3. touch -a abc.txt

4. touch -mt 200202020202 abc.txt

5. ls –full-time abc.txt

**Q.17.** create two empty directories naming Test1 and Test2

create two files f1.txt and f2.txt in Test1 directory

copy f1.txt from Test1 directory Test2 Directory

move f2.txt from Test1 directory to Test2 directory

hide a file f1.txt from Test1 directory

**Ans:**

1. mkdir Test1 Test2

2. cd Test1

touch f1.txt f2.txt

3. cp f1.txt ~/Test2/

4. mv f2.txt ~/Test2/

5. mv f1.txt .f1.txt

**Q.18.**

List all the files in system which has read write and execute permission

remove all the permission of file.txt and set only read permission

remove all permission of file.txt and set user permission as read, other permission as write, group permission as execute

change owner of file.txt to root

change group of file.txt to root

**Ans:**

1. find ./ -perm 777

2. chmod a-rwx,a+r file.txt

3. chmod a-rwx,u=r,o=w,g=x file.txt

4. chown root file.txt

5. chgrp root file.txt

**Q.19.** How to delete empty lines permanently from file Practice.txt

Delete line number 10 from Practice.txt

Delete line 2, line 5 and line 7 from Practice.txt

Find count of word “hello” in Practice.txt

Write a command to view file without any blank line

**Ans:**

1. sed ‘/^$/d’ Practice.txt

2. sed -i ‘4d’ Practice.txt

3. sed -I ‘2d;4d;7d’ Practice.txt

4. grep -c ‘hello’ Practice.txt

5. sed ‘/^$/d’ Practice.txt