**Q1. Explore the following commands with various options, refer man pages for**

**further help a) date b) cal c) bc d) echo e) who f) whoami g) logname g) uname h)**

**seq i) clear**

ans=>

a) $date, $date +%a, $date +%A, $date +%b, $date +%B, $date +%c, $date +%C, $date +%d, $date +%D, $date +%B\%d\%Y

b)$date + cal, $date + cal 2020, $date + cal -ml 2019

c)$x=`echo "12+5" | bc`

$ echo $x

d) $echo shell , $echo "Hello World..!!"

e) $ who, $who -m -H, $who -T -H

f) $whoami, $whoami --version

g)$ uname -r

h)$ seq 10 5 100 , $seq 10

i) $clear

**Q2. A) Create three directory a b and c and create a.txt,b.txt and c.txt**

**in each directory respectively and then copy c directory into the a.**

**B)Move Directory b to c.**

**C)Create alias of ls -lh command to your name.**

**D)Change Directory name a to cdac.**

**Ans=>**

A) mkdir a, mkdir b, mkdir c

touch a.txt, touch b.txt, touch c.txt

B) mv b c

C)alias Akshay=ls -lh

D) mv c cdac

**Q3. A) Create five files file1.txt , file2.txt ,file3.txt file4.txt and**

**file5.txt with some text inside it. Search for 's' character**

**inside all the files using grep command.**

**Also Use cat to view all file content together.**

**B)Create file.txt using cat and edit that using nano editor.**

**c)Create 5 empty files using touch command**

**D)Remove previously created directory a , b and c.**

**Ans=>**

A) $cat>file1.txt

Its my first file

$cat>file2.txt

Its my work on softwares

$cat>file3.txt

sound is high

$cat>file4.txt

operating system

$cat>file5.txt

I am cool

**$grep s file1.txt file2.txt file3.txt file4.txt file5.txt**

B) $cat>file.txt

hello world..!!

C) touch a1.txt a2.txt a3.txt a4.txt a5.txt

D) rmdir a b c

**Q4. Create a file with some content using vi editor**

**a) Display the file using cat command**

**b) Display line numbers along with content**

**c) Display the file in reverse order using tac**

**d) Combine multiple files using cat command**

$vi item1.txt

hello world!!

a) $cat item1.txt

b) $cat -n item1.txt

c) $tac item1.txt

d) $cat file1.txt>>file2.txt>>file3.txt>>file4.txt

**Q5. Create Random some files and sub directories.**

**a) display files row wise, column wise, 1 per row**

**b) sort the files in ascending, descending order**

**c) Create some hidden files and sub directories and display them using “ls -a”**

**d) Change time stamp of some files and directories using touch command and display the files using ls -t ls -rt**

**e) Recursive display contents of your home directory.**

**f) display all attributes of files and directories using ls -l**

**g) display attributes of a directory using ls -ld**

b) $ sort item3.txt

c) $ls -a ,$ll -a

d)

**Q1. Create directory of your name and then create 4 files inside it named**

**a.txt, b.txt, c.txt and d.sh. And change the directory permission to**

**only user and also files permission to only user such that**

**a)user can read and write the file a.txt and b.txt**

**b)user can write the file c.txt**

**c)user can exectuable the file d.sh. Make**

**Contents of file d.sh:**

**#/bin/sh**

**ls -lh**

$ cd a

$ touch a.txt b.txt c.txt d.sh

a) $ chmod u=rw a.txt b.txt

b) $chmod u=w c.txt

c) $ ls -lh d.sh

-rw-r--r-- 1 ACK 197121 0 Sep 9 20:34 d.sh

**Q2. Change the permission of the previous directory to executable only.**

**Analyze the output.**

**Ans=>**

$ chmod 1 a

$ ls -lh a

-r--r--r-- 1 ACK 197121 0 Sep 9 20:34 a

**Q3. Change the permission of the previous directory to read only.**

**Analyze the output.**

**ANS=>**

$ chmod 4 a

$ls -lh a

**Q4. Use echo to list the all files of your home directory.**

**ANS=>**

cd a

$ echo .\* \*

. .. a.txt b.txt c.txt d.sh

**Q5. Use echo to list the all files of /etc/ directory**

**Ans=>**

$ echo \*files

**Q6. Use echo to list the all files of /etc/ directory with extension name .conf**

**Ans=>**

$ find /etc -type f -name "\*.conf"

/etc/nsswitch.conf

**Q7. Use echo to append your name to a.txt**

**Ans=>**

$ echo "Akshay" >> a2.txt

$ cat a2.txt

**1.Create Three level nested directory a,b and c**

**a)Create at least one hidden file in each directory**

**b)Create at least one normal text file in each directory**

**c)Copy c into a**

**d)Copy file inside a into b**