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

a) date- **Tue Sep 8 16:39:30 IST 2020**

b) cal – **it display current calender**

c) bc – **details about copy write and warranty and software**

d) echo - **used in scripting language and batch files to display a line of text/string on standard output or a file. 2. Declare a variable and echo its value.**

e) who - **Print information about users who are currently logged in.**

f) whoami - **Print the user name associated with the current effective user ID.**

g) logname – **gives login name**

h) uname - **Print certain system information. Ex linux**

i) seq -

j) clear – **clear the screen**

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

then copy c directory into the a. – **cp –r c a, cp c a**

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

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

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

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

file5.txt with some text inside it**.- Touch file1.txt , file2.txt ,file3.txt file4.txt file5.txt**

Search for 's' character inside all the files using grep command. – **grep –i ‘S’ file1.txt file2.txt file3.txt file4.txt file5.txt**

Also Use cat to view all file content together.

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

c)Create 5 empty files using touch command - **Touch a1.txt , a2.txt ,a3.txt a4.txt a5.txt**

D)Remove previously created directory a , b and c.- **rm a1.txt , a2.txt ,a3.txt a4.txt a5.txt**

Q4. Create a file with some content using vi editor - **vi file1, file 2**

a) Display the file using cat command – **cat file1**

b) Display line numbers along with content – **cat –n file1**

c) Display the file in reverse order using tac – **tac file1 ()**

d) Combine multiple files using cat command - **cat file1 >> file2**

Q5. Create Random some files and sub directories.

a) display files row wise, column wise, 1 per row – **ls –a, ls -1**

b) sort the files in ascending, descending order-

c) Create some hidden files and sub directories and display them using “ls -a” **– touch .b1 .b2 .b3 bb1 bb2 bb3**

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. **- Ls -r**

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

g) display attributes of a directory using ls -ld

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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 **– chmod rw- a.txt b.txt**

b)user can write the file c.txt – **chmod –w- c.txt**

c)user can exectuable the file d.sh. Make **– chmod --x**

Contents of file d.sh:

#/bin/sh

ls -lh

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

**Chmod –-x bhushan**

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

**Chmode r-- bhushan**

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

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

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

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

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Note:Many operation might not work.Analyze them

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

2. Change the third level directory c permission to read only

3. Try copying third level c directory to outside of a

4. Create the directory “data“ inside b

5. Change the permission of b to read and write only

6. Create directory “data2” inside b

7. Create data.txt file inside b

8. Rename the second level directory c to copied\_dir

9. Change permission of copied\_dir to only executable

10. Try ls on copied\_dir

11. Try moving copied\_dir to outside of a

12. Try moving data directory outside of a

13. Now change the owner of the directory a to root

14. Change permission of a to read write and executable to only user

15. Try creating directory sample inside a

16. Create directory x outside a

17. Try moving x inside a

18. Create directory movies

19. Change group of movies to sudo

20. Change group of movies to avahi

21. Try changing permission after changing ownership to root

22. Try Changing permission after changing group to sudo without sudo

23. Try Changing owner and group both to root

24. Try changinging permission

25. Try deleting the file