**Quiz 6**

1. Write a script to delete blank lines in a file. Use cat and awk

Ans : #!/bin/bash

cat test

echo " Test file 1"

awk -f, '/./ {print $test}' test

2. Write a script to delete duplicate lines.

Ans: #!bin/bash

cat test.txt

uniq -u test.txt

3. Write a shell script to delete a directory tree.

./script.sh <directory>

Ans: #!bin/bash

echo "to delete the directory"

rm -rf ./script.sh

4. Write a shell script to see if a process is running.

Hint: Parse output of ps command

Ans: #!/bin/bash

SERVICE=$1

ps -a | grep -v grep | grep $1 > /dev/null

result=$?

echo "exit code: ${result}"

if [ "${result}" -eq "0" ] ; then

echo "`date`: $SERVICE service running, everything is fine"

else

echo "`date`: $SERVICE is not running"

fi

5. Write a shell script to display the following:

Hostname, disk space usage, free & used memory, uptime and logged in users.

Ans: #!/bin/bash

# Sample script written for Part 4 of the RHCE series

# This script will return the following set of system information:

# -Hostname information:

echo -e "\e[31;43m\*\*\*\*\* **HOSTNAME INFORMATION** \*\*\*\*\*\e[0m"

hostnamectl

echo ""

# -File system disk space usage:

echo -e "\e[31;43m\*\*\*\*\* **FILE SYSTEM DISK SPACE USAGE** \*\*\*\*\*\e[0m"

df -h

echo ""

# -Free and used memory in the system:

echo -e "\e[31;43m \*\*\*\*\* **FREE AND USED MEMORY** \*\*\*\*\*\e[0m"

free

echo ""

# -System uptime and load:

echo -e "\e[31;43m\*\*\*\*\* **SYSTEM UPTIME AND LOAD** \*\*\*\*\*\e[0m"

uptime

echo ""

# -Logged-in users:

echo -e "\e[31;43m\*\*\*\*\* **CURRENTLY LOGGED-IN USERS** \*\*\*\*\*\e[0m"

who

echo ""

# -Top 5 processes as far as memory usage is concerned

echo -e "\e[31;43m\*\*\*\*\* **TOP 5 MEMORY-CONSUMING** \*\*\*\*\e[0m"

ps -eo %mem,%cpu,comm --sort=-%mem | head -n 6

echo ""

echo -e "\e[1;32mDone.\e[0m"

6. write shell script to display syntax of given command.

Ans:

7. Write a shell to check if a command is in PATH directory list

8. Write a shell script to transfer a file using ftp and scp.

Ans: #!/bin/bash

echo " This is a transferring file"

ftp test.txt

echo "File is being transferred.

Read about how to use ftp and scp commands in scripts. Come up with your own example.

9. Write a shell script to delete files older than a week.

Ans: #!/bin/bash

timestamp=$(date +%Y%m%d\_%H%M%S)

path="/data/backuplog"

filename=log\_back\_$timestamp.txt

log=$path/$filename

find $path -name "\*.txt" -type f -mtime +7 -print -delete >> $log

echo "Backup:: Script Start -- $(date +%Y%m%d\_%H%M)" >> $log

START\_TIME=$(date +%s)

10. Write a shell script to implement -i version of cp command

11. Write a shell script that Searches down the directory tree from current directory, change the group owner of files in a directory to another group.

You should also check if new group exists, else, error out.

./script.sh oldgroup newgroup

12. Write a shell script to list files in size order, smallest first.

Hint: ls and sort commands