

1st Midterm

1) Identify the root user's home directory in Linux.

/
/root/home
/home/root
/root
None of the above

2) The Linux command that allows for deleting a directory, but only if it is empty: _____

mv
del
rm
rmdir
None of the above

3) The Linux command that will print the current working directory: _____

pwd
cd
mkdir
ls
None of the above

4) Which one of the following would NOT place you in your home directory?

cd
cd ~
cd ~/username
cd /home/username
None of the above

5) The command that list all files in long format in the current working directory, including hidden files: _____

ls -a
ls -al
ls -l
ls -i
None of the above

6) Logged in as the default user, what is the command to set the root user's password?

password root
set password
sudo passwd root

su - root
None of the above

7) Identify the Linux command that renames ~/oldfile to ~/newfile

rm ~/oldfile ~/newfile
mv ~/oldfile ~/newfile
cp ~/oldfile ~/newfile
touch ~/oldfile ~/newfile
None of the above

8) Which of the following Linux commands prevents you from accidentally overwriting a file when you redirect output to a file?

set -C
echo \$PATH
umask
chmod 777 /
None of the above

9) To properly shutdown the system immediately from the command line in Linux, you should:

Log in as root and type: shutdown -r now
Log in as root and type: shutdown -h now
Log in as root and type: restart now
Turn off the power and walk away
None of the above

10) The command that displays the name of the current shell is: _____

echo \$SHELL
cat /etc/shells
uname -r
cat /etc/fstab
None of the above

11) Identify the Linux command used to display the inode number of /etc/fstab

ls /etc/fstab
ls -l /etc/fstab
ls -a /etc/fstab
ls -i /etc/fstab
None of the above

12) Which of the following commands will create a soft link to /etc/fstab in the user's home directory?

ln /etc/fstab ~/fstab

ln -s /etc/fstab ~/fstab
cat /etc/fstab
touch /etc/fstab
None of the above

Answer the next 5 questions based on the following (pretend you're logged in as root):

```
$ mkdir -p ~/2017/tests  
$ cd ~/2017/tests  
$ mkdir test1 test2  
$ touch f1 f2 f3 f4  
$ cp f1 f2 test1  
$ cp f3 f4 ./test2  
$ mv f1 test1/f3  
$ cp f3 test2  
$ cd ../../  
$ pwd  
$ rmdir ~/2017/tests/test1  
$ rm -r ~/2017/tests
```

13) How many regular files are left in ~/2017/tests/test1 after executing the above commands?

0
1
2
3
None of the above

14) How many regular files are left in ~/2017/tests/test2 after executing the above commands?

1
2
3
4
None of the above

15) How many directories and subdirectories have been created (including deleted directories)?

2
3
4
5
None of the above

16) What is the output of the pwd command?

/
/root
/root/2017

/root/2017/tests
None of the above

17) How many directories and sub directories have been successfully removed?

0
1
2
3
None of the above

18) What of the following are all valid basic file permissions under Linux?

Read, Write, Hidden, Read Only, Execute
Read, Write, Execute
Read, System, Hidden, Archive
Read, Hidden, Execute
None of the above

19) What are the permissions in octal mode of the file fileone, given the file listing below:

-rwxr-xr-- 2 steven students 16 Oct 21 12:37 fileone

420401020
651
653
754
None of the above

20) Given the file permission rw-rw-r-- for a file named script1 in the current directory, identify the chmod command that adds execute permission for owner and group and removes read permission from others:

chmod 750 script1
chmod 760 script1
chmod 770 script1
chmod 774 script1
None of the above

21) After successfully executing the following command:

\$ chmod ug=rw,o=r ~/script2

What are the permissions given to ~/script2?

rw-rw-r--
rwxr-xr-x
rw--wx-wx
rwx-w--w-
None of the above

22) As the root user, identify the Linux command used to give everyone full access permission to directory /public

chmod 777 /public
chmod ugo=rwx /public
chmod a+rwx /public
chmod ugo+rwx /public
All of the above

Use the following file listing to answer the next 2 questions:
`-rwxr-x-w- 2 david students 127 Oct 21 12:41 filetwo`

23) What are the owner and group of filetwo?

owner: david, group: students
owner: students, group: david
owner: root, group: root
owner: david, group: david
None of the above

24) As the root user, which of the following is the right command to change filetwo's owner to jack and the group to faculty?

chown filetwo faculty.jack
chgrp jack faculty paul
chown jack faculty filetwo
chown jack.faculty filetwo
None of the above

25) With a umask of 022, what are the default file permissions?

rw-r-xr-x
rwxrw-rw-
rw-r--r--
rwx-w--w-
None of the above

26) With a umask of 044, what are the default directory permissions?

rwxr--r--
rwx-wx-wx
rw-r--r--
rw--w--w-
None of the above

27) What would the following symbolic permissions be in octal mode: -wx-w---x

- 543
- 421
- 321
- None of the above

28) What would the following symbolic permissions be in octal mode: r--r-xrw-

- 354
- 456
- 543
- 567
- None of the above

29) What are the default max permissions for a directory?

- 755
- 777
- 666
- 644
- None of the above

30) What are the default max permissions for a file?

- 755
- 777
- 666
- 644
- None of the above

31) What usermod option is used to change a user's primary group?

- C
- G
- g
- s
- None of the above

32) What usermod option is used to change a user's default shell?

- s
- d
- c
- m
- None of the above

33) What usermod option is used to change a user's home directory?

- m

-s
-C
-g
None of the above

34) What useradd option is used to include a comment for the user?

-c
-d
-S
-i
None of the above

35) What useradd option is used to make the user's home directory?

-f
-m
-d
-c
None of the above

36) What useradd option is used to set the user's home directory?

-f
-m
-d
-c
None of the above

37) What can the chown be used for?

Change the owner of a file/directory
Change the group of a file/directory
Change the owner and group of a file/directory
Switch users to the owner of the specified file
None of the above

38) What can the chgrp be used for?

Change the owner of a file/directory
Change the group of a file/directory
Change the owner and group of a file/directory
Switch users to the owner of the specified file
None of the above

39) What is the command used to show the history of executed commands in terminal?

history

echo \$HISTORY
echo \$HISTFILE
!!
None of the above

40) What is the command used to clear off your terminal screen?

clr
clearscreen
clean
clear
None of the above

41) What does the whoami command return?

The OS system you are currently using
The hostname of the system
The username of the user you're logged in as
The name of the current working directory
None of the above

**42) With the following bash prompt, what would the hostname command return:
david@ubuntu:~\$**

david@ubuntu
david
ubuntu
~
None of the above

43) To copy a file, what are the minimal permissions required for the source directory?

rwX
-wX
--X
r-X
None of the above

44) To copy a file, what are the minimal permissions required for the target directory?

rwX
-wX
--X
r-X
None of the above

45) To copy a file, what are the minimal permissions required for the file?

rwX
-wX
--X
r-X
None of the above

46) To move a file, what are the minimal permissions required for the source directory?

rwX
-wX
--X
r-X
None of the above

47) To move a file, what are the minimal permissions required for the target directory?

rwX
-wX
--X
r-X
None of the above

48) To move a file, what are the minimal permissions required for the file?

rwX
-wX
--X
r-X
None of the above

49) To delete a file, what are the minimal permissions required for the directory?

rwX
-wX
--X
r-X
None of the above

50) To delete a file, what are the minimal permissions required for the file?

rwX
-wX
--X
r-X
None of the above