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Practice Midterm

Fill in the Blank

1	is the name of the person who invented Linux.
2	is the core of the operating system.
3	is the part of the operating system that a user interacts with
4	is the partition on the hard drive where virtual memory is stored
5	is the name of the shell used by default in Linux
6	is the name of the user that has all adminstration privileges on the machine
7	is a term for software whose code can be read and shared freely to others
8	are files that contain human-readable text rendered by mapping to a character encoding

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Multiple Choice

- 1. The Unix philosophy is:
- (a) Do one thing and do it well
- (b) Operating systems should not be portable
- (c) Code should be compiled and copyrighted
- (d) A good program is monolithic and comprehensive
- 2. Which of the following is not a reason that Unix was unique for its time:
- (a) it had a small basic foundation called the kernel on top of which the community customized
- (b) it could use multiple different interactive shells
- (c) it could run on any hardware because it was written in the new high-level langauge C
- (d) it was a monolithic, closed-source, multi-user, time-sharing OS built for mainframes
- 3. What is the outcome of typing cd / into the terminal:
- (a) the present working directory becomes the user's home folder
- (b) the present working directory becomes the root directory (/)
- (c) the present working directory remains the same
- (d) the current user is changed to root
- 4. What is the outcome of typing cd ./ into the terminal:
- (a) the present working directory becomes the user's home folder
- (b) the present working directory becomes the root directory (/)
- (c) the present working directory remains the same
- (d) the current user is changed to root
- 5. What is the outcome of typing cd /home/usersname into the terminal:
- (a) the present working directory becomes the user's home folder
- (b) the present working directory becomes the root directory (/)
- (c) the present working directory remains the same
- (d) the current user is changed to root

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- 6. To save a file in Vi
- (a) Ctrl+x, Ctrl+s
- (b) type set number in ex mode
- (c) enter command mode, then ex mode, and type s and ENTER
- (d) enter command mode, then ex mode, and type w and ENTER
- 7. To quit in Emacs
- (a) Ctrl+x, Ctrl+c
- (b) enter command mode, then ex mode, and type q and ENTER
- (c) press Ctrl+k once, the universal kill process command
- (d) enter command mode, then ex mode, and type s and ENTER
- 8. To enter insert mode in Vi
- (a) Press I
- (b) Press i
- (c) Press:
- (d) Press ESC
- 9. To enter Ex mode in Vi
- (a) Press ESC, then press:
- (b) Press ESC, then press Ctrl+c
- (c) Ctrl+x
- (d) Press V

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For the following write Linux-based, Unix-based, or Other
1Fedora
2 Red Hat Enterprise
3 Windows 10
4BSD
5SystemV
6 MULTICS
7 MacOS
8Android
9 Ubuntu

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Write binary	y or text next to the following file extensions	::
1	txt	
2	sh	
3	bmp	
4.	html	

	10	
CIS44	.0	Professor Conroy Commands
1	cat	a. change file timestamps / create a blank file
2	mv	b. compare two sorted files line by line
3	cut	c. concatenate files and print on the standard output
4	grep	d. print lines matching a pattern
5	touch	e. move (rename) files
6	ls	f. display a line of text to stdout
7	chmod	g. change file mode bits (permissions)
8	wc	h. remove sections from each line of files
9	comm	i. change user password
10	sudo	j. display one-line manual page descriptions

k. execute a command as another user

m. print newline, word, and byte counts for each

l. list directory contents

file

11.____ passwd

12.____ whatis

13.____ echo

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		Directories
1	_ •	a. stores files that vary in size
2		b. stores representations of running processes
3	_ /usr/bin	c. stores representations of physical devices
4	_ /root	d. the directory where users' personal files are
5	_ /dev	e. the old place where external storage mounts
6	_ /proc	f. the root user's home directory
7	_ /lib	g. the directory where shared program libraries are
8	_ /	h. the trunk directory that contains all other
9	_ /home	directories
10	/media	i. a place where programs used by all users can be stored
11	_ /mnt	j. a special directory meaning parent directory
12	/etc	k. a place to store applications for all users to use that are not managed by the package manager

13.____ /var

14.____ /opt

15.____ /boot

l. the new place where external storage mounts

n. a special directory meaning current directory

o. stores configuration files for programs

m. stores kernel images

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What is the output

The following files are contained in the directory /home/profX/midterm/

square.txt:	<u>triangle.txt</u>	<u>species.csv</u>	pop.csv	<u>qwerty.txt</u>
### ### smiley.txt :)	*	name, color, kingdom monkey, brown, Mammal yeast, yellow, Fungus cactus, green, Plant elephant, gray, Mammal	name, populatior monkey, 5000 elephant, 300 cactus, 20	q w e r t

paste square.txt square.txt

grep < species.csv "Mammal"</pre>

sort qwerty.txt

ls /home/profX/midterm | sort | grep txt

cat smiley.txt smiley.txt

paste qwerty.txt qwerty.txt

cut -d"," -f2 pop.csv

echo ":(" > smiley.txt

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Complete this task	
Get information about how to use the cat command from inside the terminal by accessing commands documentation:	ng this
1. Print the words "Help I'm not a werewolf! Let me in!" to the terminal screen	
2. Print the current directory that you are in	
3. Print the list of directories in the root directory (/)	
4.Combine the contents of the files LotR1.txt, LotR2.txt, and LotR3.txt.	
5.Change the permissions of the file sorcerors-apprentice.sh from rwx to rwxrw	VXrWX
6.Move to the parent directory from the current directory you are in	
7.Create a file named hello.txt in the directory /home/profX/	
8.Initiate the command to change your password.	
9.Append the words "Get out" to the file journal.txt	
5.Append the words Get out to the file journal.txt	
10.Change the owner of the file triforce.sh to zelda	
11. Open the file hello-world.txt in emacs	