1.	Login as root, to change the login shell to /bin/csh for user100, you type					
	 A. useradd -s /bin/csh user100 B. echo \$SHELL C. SHELL=/bin/csh user100 D. usermod -s /bin/csh user100 E. All of the above 					
2.	2. Login as root, to create a user account based on the following:					
	Username: user200 Home Directory: /home/user200home (Create the user's home directory if it does not exist) Initial Group: root Which of the following is the command that should be used?					
	 A. useradd user200 B. useradd -d /home/user200home user200 C. useradd -g root user200 -md /home/user200home D. useradd -d /home/user200home -m E. None of the above 					
3.	Logged in as root, If user300 is a valid account and the home directory is /home/user300, the command "usermod -d /home/user300home user300" will					
	 A. Only change the home directory of user300 in file /etc/passwd B. Create a new directory named user300home in /home C. Create a new directory named user300home in /home, and make the necessary change to /etc/passwd D. Create a new directory named user300home in /home, and make the necessary change to /etc/passwd, and delete the previous directory /home/user300 E. None of the above 					
4.	Which of the following command deletes user400 from /etc/passwd and remove user400 's home directory and any files stored in it?					
	A. userdel user400 B. userdel -r user400 C. usermod -r user400 D. usermod -d user400 E. None of the above					
5.	What is the file that stores encrypted user passwords?					
A. B. C. D. E.	/etc/passwd /etc/group /etc/shadow /etc/inittab None of the above					

- 6. Identify the command that is used to delete an existing group in Linux?
- A. groupdel
- B. gpasswd
- C. groupmod
- D. userdel
- E. None of the above
- 7. Which of the following options for **useradd** command can be used to prevent Linux from creating a group with the same name as username?
 - A. -N
 - B. -s
 - C. -d
 - D. -m
 - E. None of the above
- 8. Which of the following command can be used to verify if **user500** has been created in the system?
 - A. Is /home
 - B. Is /root
 - C. grep user500 /etc/passwd
 - D. cat /etc/group|grep user500
 - E. None of the above.

Login as root, run the following commands and answer question 9 to 13:

```
groupadd group1
groupadd group2
useradd -m user1
useradd -G group1 -m user2
useradd -G group1,group2 -m user3
useradd -g group2 -G user2 -m user4
gpasswd -a user4 group1
gpasswd -d user3 group2
groups user3
```

- 9. Who is a member of **group1**?
 - A. user1, user2 and user3
 - B. user2, user3 and user4
 - C. user2 and user4
 - D. user3 and user4
 - E. None of the above

10. Who is a member of group2?				
A. user2B. user3C. user4D. user3 and user4E. None of the above				
11. Who is a member of group user2?				
 A. user2 B. user1 and user2 C. user2 and user4 D. user3 and user4 E. None of the above 				
12. What is the output produced by command: <i>groups user3?</i>				
 A. user3: user3 group1 B. user3: group1 group2 C. user3: user3 D. user3: user3 group1 grop2 E. None of the above 				
13. To make user4 the administrator of group1 , you login as root and type				
 A. usermod user4 group1 B. gpasswd -A user4 group1 C. useradd -g group1 user4 D. groupadd group1 user4 E. None of the above 				
14. Which of the following uses the bash shell for the command interpreter in a script?				
 A. /bin/bash B. #/bin/bash C. !/bin/bash D. #!/bin/bash E. None of the above 				
15. What special variable is used to determine the exit status of a previously executed command?				
A. \$# B. \$0 C. \$? D. \$9 E. None of the above				

16. Y	You use the symb	ol to mark the beginning of a comment in a script.					
А	A. #						
В	3. \$						
С	C. !						
D	D. >						
Ε	E. None of the above						
	. To redirect standard output and error of script1 to a file named outerr.txt , use the command.						
А	A. script1 1> outerr.txt						
	B. script1 2> outerr.txt						
	C. script1 &> outerr.txt						
	D. script1 > /dev/null						
Ε	E. None of the above						
18	is the oper	rator that is used when you want one command to execute only					
if	if another command executes successfully.						
	٩. *						
	3.						
	C. &&						
	D. >						
Е	E. None of the above						
19	is the syml	bol used to separate commands in a list, which are executed					
S	sequentially.						
А	A. ;						
	3. <						
	C. >>						
	D. &&						
E	E. None of the above						
	What is the output of the followecho "\\$ (pwd) "	ring statement?					
Δ	A. current directory						
	B. pwd						
	c. \$(pwd)						
	D. syntax error						
	E. None of the above						
_							

21.	What is the	output o	of the	following	statement?

echo 'Linux is an "open-source" operating system.'

- A. Linux is an "open-source" operating system.
- B. Linux is an open-source operating system.
- C. Linux is an 'open-source operating' system.
- D. 'Linux is an "open-source" operating system.'
- E. None of the above
- 22. What is the output of the following statements?

```
a=20; b=50
{a=40; b=100;}
(a=5; b=10)
echo $a $b
```

- A. 2050
- B. 60 150
- C. 510
- D. 40 100
- E. None of the above
- 23. The following **echo** statement will execute _____ time(s).

```
for ((num=1; num<10; num++ ))
do
    echo $num
done</pre>
```

- A. 0
- B. 1
- C. 9
- D. 10
- E. None of the above
- 24. What is the result of executing the following statements?

```
for animal in cat dog bear ; do
    echo $animal
done
```

- A. The words "cat", "dog", and "bear" are displayed on the screen on separate lines
- B. The word "animal" is displayed on the screen
- C. The words "cat", "dog", "animal", and "bear" are displayed on the screen in one line
- D. Nothing is displayed
- E. None of the above

25. The following **echo** statement will execute _____ time(s).

```
((t=0))
while [ $t -eq 10 ] && [ $t -ge 0 ]
do
        echo "Blue ocean!"
done
```

- A. 0
- B. 1
- C. 2
- D. an infinite number of times
- E. None of the above
- 26. What is the result of executing the following statements?

```
((g=5))
until [ $g -lt 1 ]
do
        echo $g
        ((g--))
done
```

- A. The numbers 5,4,3,2, are displayed on the screen on separate lines
- B. The numbers 5,4,3,2,1 are displayed on the screen on separate lines
- C. The numbers 4,3,2,1,0 are displayed on the screen on separate lines
- D. Nothing occurs because there is a syntax error
- E. None of the above
- 27. What value of the variable name **total** will be displayed after executing the following statements?

- A. 2
- B. 3
- C. 6
- D. 12
- E. None of the above

28. What value of the variable name c will be displayed after executing the following statements?

```
((x=1))
((c=0))
while [ $x -le 5 ] do
      ((y=4))
     until [ $y -le 1 ] do
            ((y--))
           echo $x $y
            ((C++))
      done
      ((x++))
done
echo "The number of times looped is: " $c
A. 5
B. 10
C. 15
D. 20
E. None of the above
```

- 29. Given x = 5. Which of the following will exit with a status of 0?
 - A. [\$x>1] B. [\$x-le 6] C. [\$x-lt 5]
 - D. [\$x!-eq5]
 - E. None of the above
- 30. Which command sequence below will find the file named **HelloWorld**.sh in the directory **tools/toolbox**?
 - A. find /tools -name "HelloWorld.sh"
 - B. find -name "HelloWorld.sh" /tools/toolbox
 - C. find / -name "HeloWorld.sh"
 - D. find "HelloWorld.sh" /tools
 - E. None of the above
- 31. Which of the following commands will read the content of a text file and display on standard output?
 - A. less
 - B. head
 - C. cat
 - D. All of the above
 - E. None of the above

32. Identify the root user's home directory in Linux.				
A. / B. /root/home C. /home/root D. /root E. None of the above				
33. Which one of the following would NOT place you in your home directory, where username is the name of the currently logged in user?				
 A. cd B. cd ~ C. cd ~/username D. cd /home/username E. None of the above 34. The command that will list all files in long format in current working directory, including hidden files				
A. Is -Id B. Is -al C. Is -I D. Is -i E. None of the above				
35. Which of the following is NOT true about hard link in Linux?				
 A. You may create multiple hard links to the same file B. All hard links have the same inode number as the original file's C. All hard links become meaningless (orphan link) if the original file is removed D. The physical data of the file will not be deleted from the disk until all hard links are deleted. E. None of the above 				
Given file listing as the following, answer question 36 to 37				
-rwxr-x-w- 2 david students 127 Oct 21 12:41 filetwo				
36. What are the owner and group of filetwo ?				
 A. owner: david & group: students B. owner: students & group: david C. owner: root & group: root D. owner: david & group: david E. None of the above 				

- 37. Log in as root, which of the following is the right command to change **filetwo**'s owner to **jack** and group to **faculty**?
 - A. chown filetwo faculty.jack
 - B. chgrp jack faculty paul
 - C. chown jack faculty filetwo
 - D. chown jack.faculty filetwo
 - E. None of the above
- 38. With an umask of 033, which will be the default file permission?
 - A. rw---x--x
 - B. rw--w--w-
 - C. rw-r--r--
 - D. rw-rw-r--
 - E. None of the above
- 39. If my current directory is **/etc**, which of these pathnames is equivalent to the file name **/etc/passwd**?
 - A. ./etc/passwd
 - B. ../etc/passwd/.
 - C. /passwd
 - D. passwd
 - E. ../passwd
- 40. Which of the following will prompt "What is your username?" then read the user's input and set the user's input to **userInput**?
 - A. read userInput; echo "What is your username?"
 - B. read -p userInput "What is your username?"
 - C. read -p "What is your username?" userInput
 - D. read userInput "What is your username?"
 - E. None of the above