

PRINT Name: _____ LAB Section:

Test Version: ____ One-Answer Multiple Choice 45 Questions – 10 of 10%

- ☞ Read **all** the words of these instructions and **both** sides (back and front) of all pages.
- ☞ Use your full, unabbreviated name on the mark-sense form. Do not abbreviate your name.
- ☞ Put the three-digit **Test Version** above into **NO. OF QUESTIONS** and **NO. OF STUDENTS**
- ☞ Fill in the bubbles with pencil only, no pen. Enter your NAME, Test Version, and answers.
- ☞ Manage your time. Answer questions you know, first. One Answer per question.
- ☞ The answer to the last question about reading/doing all these test instructions is: **Sim**

1. [16/89] If file **foo** contains 2 lines, and file **bar** contains 3 lines, then how many lines are output on your screen by this command line:
`head foo | echo bar`
 a. 2 followed by 1 b. 2 c. 3
 d. 2 followed by 3 e. 1
2. [20/89] In an empty directory, how many words are in file **foo** after this:
`echo b >c .d ; cp c d ; ls >foo`
 a. 2 b. 4 c. 1 d. 0 e. 3
3. [25/90] In an empty directory, what is in file **bar** after this command line:
`echo bar >bar ; ls nosuchfile | wc -l >bar`
 a. 1 b. bar
 c. nosuchfile d. 0
 e. nothing (empty file)
4. [26/90] In an empty directory, how many words are in file **foo** after this:
`touch b >c .d ; mv c d ; ls >foo`
 a. 4 b. 3 c. 0 d. 1 e. 2
5. [29/86] Which command line below outputs only lines 5-10 of the file named **foo**?
 a. `tail -15 foo | head -5`
 b. `head -15 foo | tail -5`
 c. `head -10 foo | tail -6`
 d. `tail -10 foo | head -6`
 e. `head -5 foo | tail -10`

6. [30/90] If my current directory is **/etc**, which of these pathnames is equivalent to the file name **/bin/ls**?
 a. `../etc/./bin/ls` b. `./bin/ls`
 c. `etc/./bin/ls` d. `../bin/./ls`
 e. `../bin/ls/.`
7. [32/89] What is the output of this command line in an empty directory:
`date >.a ; touch b. ; echo .*`
 a. **b.**
 b. **.a**
 c. **.***
 d. **. .. .a**
 e. an error message from **echo** saying **.*** does not exist
8. [34/89] How many arguments and options are there to the command:
`ls -lid /p`
 a. Two arguments, one of which is a single option name and the other is a pathname.
 b. Two arguments: A file name starting with a dash and a **/p** switch option argument.
 c. Three arguments, one of which contains options and one is a pathname.
 d. Two command line arguments, one of which contains three options.
 e. Two arguments, neither of which is an option.
9. [34/89] If I am in directory **/usr/tmp** and **mt** is an empty sub-directory, which command copies the password file into **mt** under the name **foo**?
 a. `cp ../../usr/./etc/passwd ../../tmp/mt/foo`
 b. `cp mt/../../../../etc/passwd ./mt/foo`
 c. `cp mt/../../../../tmp/../../../../etc/passwd ../tmp/mt/./foo`
 d. `cp ../../etc/./etc/./passwd mt/foo`
 e. `cp ../../etc/passwd /mt/foo`
10. [35/88] What is the correct syntax to redirect both standard output and standard error into the same output file?
 a. `cmd 1>out 2>out` b. `cmd 2>&1 >out`
 c. `cmd 1>out 2>1` d. `cmd >out 2>&1`
 e. `cmd 2>1 >out`

11. [37/89] In an empty directory, what is the output on your screen after this command line: `touch .a .b .c ; ls *`
- `. .. .a .b .c`
 - `.a .b .c`
 - no output
 - `*`
 - an error message from `ls` saying `*` does not exist
12. [40/90] In an empty directory, what is the output on your screen of this command line: `echo hi >foo >bar ; cat foo`
- no output
 - `hi`
 - `hi >foo`
 - `hi >foo >bar`
 - `cat: foo: No such file or directory`
13. [40/90] What will recursively find all pathnames named `bar` in directory `foo`?
- `find foo -name 'bar'`
 - `ls -R 'bar' foo`
 - `grep 'bar' foo`
 - `grep foo -basename 'bar'`
 - `find bar -name 'foo'`
14. [41/89] If file `nine` contains 9 lines, each of which is the one-digit line number of the line in the file (1 through 9), what is the output on your screen of this command: `cat nine nine | tail -n 6 | head -n 1`
- `4 4`
 - `1`
 - `4`
 - `6 6`
 - `7`
15. [43/89] What is the output on your screen after these command lines:
`echo one >x ; cp x y ; echo two >>y`
`sort x >y ; cat y`
- `two`
 - `two` followed by `one`
 - `one` followed by `two`
 - `one`
 - no output

16. [45/89] Which pathname almost always leads to the same file named: `/usr/bin/x`
- `/usr/./usr/bin/x`
 - `/usr/bin/x/.`
 - `../../../../usr/bin/x`
 - `../usr/./bin/./bin/./x`
 - `./usr/bin/x`
17. [46/90] If file `a` contains 1 line, and file `b` contains 2 lines, then how many lines are in file `c` after this command line:
`sort a b >c ; cat b b >>a ; cat c b >c a`
- 10
 - 9
 - 5
 - 8
 - 7
18. [47/90] Give the minimum number of directories in this valid pathname:
`/aa/zz/uu/33/ii`
- 2
 - 4
 - 5
 - 6
 - 3
19. [47/89] If file `foo` contains 2 lines, and file `bar` contains 3 lines, then how many lines are output on your screen by this command line:
`cp foo bar | sort`
- 2 followed by 3
 - 2
 - 3 followed by 2
 - no output on screen
 - 3
20. [47/89] What is the output on your screen after this command line:
`mkdir d ; touch 1 2 d/.11 d/.22 ; echo d/*`
- `d/1 d/2`
 - `d/.11 d/.22`
 - no output
 - `d/.` `d/..` `d/.11` `d/.22`
 - `d/*`
21. [49/89] Given the pathname `/etc/passwd`, the *basename* of this pathname is:
- `etc`
 - `etc/passwd`
 - `passwd`
 - `/etc`
 - `/`

22. [49/90] If I am in directory `/usr/tmp` and `mt` is an empty sub-directory, what is true after this command line:
- ```
touch foo ; mkdir bar ; mv foo mt/bar
```
- the directory `mt` now contains a file named `bar`
  - the directory `mt` is still empty
  - the command fails because `mt/bar` is not a directory
  - the directory `bar` now contains a file named `foo`
  - the directory `mt` now contains a file named `foo`
23. [49/89] If I am in directory `/usr/tmp` and `mt` is an empty sub-directory, what is true after this command line:
- ```
touch mt/bar ; mkdir bar ; cp mt/bar bar/foo
```
- the command fails because the name `bar/foo` does not exist
 - the directory `mt` is now empty
 - the directory `mt` now contains only a file named `foo`
 - the `mkdir` fails because `bar` already exists
 - there is a copy of the file `bar` in the file `foo`
24. [49/89] What command shows all the lines in file `/etc/group` that contain the string `idallen`?
- `grep idallen /etc/group`
 - `grep idallen >/etc/group`
 - `grep /etc/group idallen`
 - `cat /etc/group | find idallen`
 - `cat /etc/group > grep idallen`
25. [50/90] If I am in directory `/usr/tmp` and `mt` is an empty sub-directory, what is true after this command line:
- ```
touch foo ; mkdir bar ; mv foo bar/mt
```
- the directory `bar` now contains a file named `foo`
  - the directory `mt` is still empty
  - the command fails because `bar/mt` is not a directory
  - the directory `mt` now contains a file named `foo`
  - the directory `mt` now contains a directory named `bar`
26. [52/90] What is in file `1` after this command line:
- ```
echo a b >1 c d
```
- `echo a b`
 - `a b`
 - nothing (empty file)
 - `a b c d`
 - `c d`

27. [53/90] If you type the command `sort`, which `CTRL` key will send an `EOF` and take you back to the command prompt?
- `^D`
 - `^U`
 - `^C`
 - `^R`
 - `^E`
28. [53/89] Which of these command lines will make file `foo` contain all of the content of file `a` followed by all of the content of file `b`?
- `mv a b >foo`
 - `cp a >foo ; cp b >>foo`
 - `cp a b >foo`
 - `cat a >foo ; cat b >>foo`
 - `echo a b >foo`
29. [55/90] How do I search for the string `foo` in the paginated output from the `man` command on my screen?
- `grep foo`
 - `@foo`
 - `help foo`
 - `find foo`
 - `/foo`
30. [56/90] In an empty directory, what happens after this command line:
- ```
mkdir a b c ; mv a b c
```
- the directories `a` and `b` are moved into the directory `c`
  - an error message: `mv: target 'c' is not a directory`
  - the directories `a`, `b`, and `c` are moved to the directory `c`
  - the directories `a`, `b`, and `c` are moved to the current directory
  - the directories `a` and `b` are appended to the directory `c`
31. [58/90] How many words are in the file `a` after this command line:
- ```
echo one two >a ; echo me too >a ; echo you >>a
```
- 2
 - 5
 - 1
 - 3
 - 4
32. [59/90] Which command line displays all the non-hidden names in the current directory that end in the letter `z` (and no other names)?
- `echo *z*`
 - `echo z*`
 - `echo *z`
 - `echo [z]`
 - `echo ?z`
33. [62/89] In a directory that contains only the file `foo`, what happens after this command: `cp foo cat`
- there is only the file named `cat` in the directory now
 - the command fails because `cat` is not a directory
 - an empty file named `cat` is created
 - the command fails because the name `cat` does not exist
 - there is a copy of the file named `foo` in the file named `cat`

34. [62/90] The option to **ls** that shows hidden names is:
 a. **-h** b. **-l** c. **-1** d. **-a** e. **-i**
35. [63/90] Which Unix command line deletes a directory and everything inside it?
 a. **rmdir -all dir** b. **deltree -all dir**
 c. **rm -all dir** d. **rmdir -r dir**
 e. **rm -r dir**
36. [64/89] If file **dog** contains 2 lines, and file **cat** contains 3 lines, then how many lines are output on your screen by this command line:
sort dog | head cat
 a. 2 followed by 3 b. 3
 c. 4 d. 5
 e. 2 followed by 10
37. [64/90] What is the result of this exact command line: **cat wc cat**
 a. the contents of the files **wc** and **cat** will be displayed
 b. the names of the pathnames **wc** and **cat** will be displayed
 c. file **wc** will be copied to **cat**
 d. all the files under directory **wc** with the name **cat** will be displayed
 e. the two text strings **wc** and **cat** will be displayed
38. [64/89] Which command line displays all the non-hidden names in the current directory that contain the case-insensitive word **hi** (and no other names)?
 a. **echo ?[HhIi]?** b. **echo ?[HhIiHhIi]?**
 c. **echo *(H,h,I,i)*** d. **echo *[Hh][Ii]***
 e. **echo *[hiHI]***
39. [64/89] What is the output of this successful command sequence?
cd /tmp ; mkdir foo ; mkdir bar ; pwd
 a. **/tmp/bar** b. **/tmp/foo**
 c. **/tmp** d. **/tmp/foo/bar**
 e. **/bar**
40. [65/90] The shell expands a leading tilde (~) in a pathname (e.g. ~/abc) to be:
 a. the parent directory b. your HOME directory
 c. the ROOT directory d. the directory **/root**
 e. the current directory

41. [69/90] In a manual page **SYNOPSIS** section, using square brackets ([]) means:
 a. something that is repeated b. the parent directory
 c. a hidden directory d. no special meaning
 e. something that is optional
42. [69/90] To "throw away" (hide) standard error output of a command, use:
 a. **cmd 2>/dev/sda1** b. **cmd 2>&1**
 c. **cmd 1>/dev/sda1** d. **cmd 2>/dev/null**
 e. **cmd 1>&2**
43. [72/90] What is the result of this exact command line: **echo ls cat**
 a. the names of the pathnames **ls** and **cat** will be displayed
 b. all the files under directory **ls** with the name **cat** will be displayed
 c. the two text strings **ls** and **cat** will be displayed
 d. the contents of the files **ls** and **cat** will be displayed
 e. file **ls** will be copied to **cat**
44. [76/89] **Did you read all the words of the test instructions on page one?**
 a. **Igen** (Yes - Hungarian) b. **Tak** (Yes - Polish)
 c. **Taip** (Yes - Lithuanian) d. **Sim** (Yes - Portuguese)
 e. **Jes** (Yes - Esperanto)
45. [82/90] The command that creates a directory and all parent directories is:
 a. **mkdir -p x/y/z** b. **mkdir -r x/y/z**
 c. **touch x/y/z** d. **rmdir -r x/y/z**
 e. **rm -r x/y/z**