

PRINT Name: _____ LAB Section:

One-Answer Multiple Choice 45 Questions

Weight 10%

- ☞ Read **all** the words of these instructions and **both** sides (back and front) of all pages.
- ☞ Manage your time. Answer questions you know, first. One Answer per question.
- ☞ **PRINT** your Name and Lab on this Question Sheet. You may write or draw on this sheet.
- ☞ Use your full, unabbreviated name on the mark-sense form. Do not abbreviate your name.
- ☞ Enter your NAME, Student Number, and Answers. Fill in the bubbles with pencil, no pen.
- ☞ The answer to the last question about reading/doing all these test instructions is: **Tak**

191. Answer **191** is **B**
192. Answer **192** is **D**
193. Answer **193** is **C**
194. Answer **194** is **B**
195. Answer **195** is **A**
196. Answer **196** is **E**

Your Test Version is:

B D C B A E

Fill in the bubbles for the above six letters as six answers **191** through **196** on the back side of the Scantron form, in the lower-right-most answer column.

1. Which displays all the non-hidden names in the current directory that contain the word **ian** (and no other names)?
 - a. `echo ?ian?`
 - b. `echo [ian]`
 - c. `echo *ian*`
 - d. `echo *[ian]*`
 - e. `echo [i][a][n]`
2. If **mt** is an empty sub-directory, what is true after this:


```
touch foo ; mkdir dir ; mv foo dir/mt
```

 - a. the directory **mt** now contains a file named **foo**
 - b. the directory **mt** now contains a directory named **dir**
 - c. the directory **mt** is still empty
 - d. the command fails because **dir/mt** is not a directory
 - e. the directory **dir** now contains a file named **foo**
3. The option to **ls** that shows hidden names is:
 - a. `-h`
 - b. `-l`
 - c. `-a`
 - d. `-1`
 - e. `-i`

4. What is the output of this in an empty directory:


```
pwd >.pwd ; ls >.ls ; echo .?*
```

 - a. `.pwd .ls`
 - b. an error message from **echo** saying `.?* does not exist`
 - c. `.. .pwd .ls`
 - d. `.?*`
 - e. `.. .pwd .ls`
5. In an empty directory, how many words are in file **c** after this:


```
touch a >x ; echo y >x ; mv b a >b ; ls >c
```

 - a. 0
 - b. 1
 - c. 2
 - d. 3
 - e. 4
6. If **mt** is an empty sub-directory, what is true after this:


```
touch foo ; mkdir bar ; mv mt/./foo mt/./bar
```

 - a. the directory **bar** now contains a file named **foo**
 - b. the command fails because **mt/bar** is not a directory
 - c. the directory **mt** now contains a file named **bar**
 - d. the directory **mt** is still empty
 - e. the directory **mt** now contains a file named **foo**
7. How do I search for the text string **string** in the paginated output from the **man** command on my screen?
 - a. `find string`
 - b. `/string`
 - c. `help string`
 - d. `\string`
 - e. `grep string`
8. 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:


```
cat nine nine | head -n 11 | tail -n 1
```

 - a. 8
 - b. 3
 - c. 2
 - d. 9
 - e. 1
9. What is the output on your screen after these two command lines:


```
echo hi >a ; cp a c ; echo go >>c
head a >c ; head a >a ; cat a c
```

 - a. **hi** followed by **hi**
 - b. **hi**
 - c. **go**
 - d. **hi** followed by **go**
 - e. no output

10. How many lines are in file **x** after this:
`date >x ; date >>x ; date >x ; date >>x`
 a. 1 b. 0 c. 3 d. 2 e. 4
11. In a directory that contains only the file **ls**, what happens after this:
`cp ls wc`
 a. an empty file named **wc** is created
 b. a copy of the file named **ls** is in the file named **wc**
 c. the command fails because **wc** is not a directory
 d. there is only the file named **wc** in the directory now
 e. the command fails because the name **wc** does not exist
12. In an empty directory, how many words are in file **c** after this:
`touch a a a a ; ls >b >c`
 a. 3 b. 4 c. 1 d. 2 e. 0
13. In an empty directory, what is the output on your screen of this:
`echo xx >foo >bar ; cat foo`
 a. **cat: foo: No such file or directory**
 b. **xx**
 c. no output
 d. **xx >bar**
 e. **xx >foo >bar**
14. If **mt** is an empty sub-directory, what is true after this:
`touch mt/foo ; mkdir foo ; mv mt/foo mt/./foo/me`
 a. the directory **mt** now contains only a file named **me**
 b. the command fails because the name **mt/./foo/me** does not exist
 c. the **mkdir** fails because **foo** already exists
 d. there is a second copy of the file **foo** in the file named **me**
 e. the directory **mt** is now empty
15. If my current directory is **/usr/lib**, which of these pathnames is equivalent to the file name **/bin/bash**?
 a. **/usr/lib/./bash** b. **./bin/bash**
 c. **../bin/bash** d. **.././bin/./bash**
 e. **./bash**

16. What command shows all the lines in file **file** that contain the text **mom**?
 a. **fgrep 'file' mom**
 b. **cat file | find 'mom'**
 c. **fgrep 'mom' >file**
 d. **fgrep 'mom' file**
 e. **cat file > fgrep 'mom'**
17. Which of these will make file **z** contain all of the content of file **x** followed by all of the content of file **y**?
 a. **cp x y >z** b. **cp x >z ; cp y >>z**
 c. **cp x y >>z** d. **cp x z ; cat y >>z**
 e. **cat x >z ; cp y >>z**
18. In an empty directory, what is the output on your screen after this:
`date >.a ; touch .b ; ls *`
 a. *****
 b. **. .. .a .b**
 c. no output
 d. **.a .b**
 e. an error message from **ls** saying ***** does not exist
19. If my current directory is **/tmp**, which command copies the password file into the existing directory **/tmp/dir** under the name **bar**?
 a. **cp dir/../../../../etc/passwd dir/../../../../tmp/dir/bar**
 b. **cp ../../etc/./passwd /dir/tmp/bar**
 c. **cp ../../etc/passwd ./bar**
 d. **cp ../dir/../../../../etc/passwd ../bar**
 e. **cp ./etc/passwd dir/bar**
20. Which displays all the non-hidden names in the current directory that contain the case-insensitive word **ian** (and no other names)?
 a. **echo *[ian, IAN, Ian, iAn, iaN, IAn, IaN, iAN]***
 b. **echo *[IiAaNn]***
 c. **echo *[ian|IAN|Ian|iAn|iaN|IAn|IaN|iAN]***
 d. **echo *[Ii][Aa][Nn]***
 e. **echo *IiAaNn***

21. If I am in directory `/tmp` and `mt` is an empty sub-directory, what is true after this: `touch mt/foo ; mkdir mt/me ; cp mt/foo mt/./me`
- the directory `mt` now contains only a file named `me`
 - the command fails because the name `mt/./me` does not exist
 - there is a second copy of the file `foo` in file `/tmp/me`
 - the directory `mt` is now empty
 - there is a second copy of the file `foo` in directory `mt`
22. If file `a` contains 2 lines, and file `b` contains 3 lines, then how many lines are output on your screen by this: `cp a b | tail`
- 3
 - 2
 - 2 followed by 3
 - 3 followed by 2
 - no output on screen
23. If file `a` contains 2 lines, and file `b` contains 3 lines, then how many lines are output on your screen by this: `head a | head b`
- 3 followed by 2
 - 2
 - 2 followed by 3
 - 3
 - no output on screen
24. 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:
`sort nine nine | tail -n 6 | head -n 1`
- 7
 - 4
 - 6
 - 5
 - 3
25. Which pathname almost always leads to the same file named: `/dev/null`
- `/dev/null/.`
 - `./dev/null`
 - `../dev/null`
 - `/dev/null/./null`
 - `/dev/./dev/./null`
26. In a manual page **SYNOPSIS** section, ellipsis (three dots) (`...`) mean:
- something that is repeated
 - the parent directory
 - something that is optional
 - a hidden directory
 - no special meaning
27. Which **CTRL** key will send an **EOF** to a command reading your keyboard, and take you back to the command prompt?
- `^C`
 - `^D`
 - `^U`
 - `^R`
 - `^E`

28. In an empty directory, what is in file `c` after this:
`echo nosuchfile >c ; ls nosuchfile >c`
- `ls: cannot access nosuchfile`
 - `nosuchfile c`
 - `nosuchfile`
 - nothing (empty file)
 - `c`
29. Given the pathname `/usr/local/lib`, the *basename* of this pathname is:
- `/`
 - `usr`
 - `/usr/local`
 - `lib`
 - `local`
30. Which deletes a directory and everything inside it?
- `del -p dir`
 - `rd -a dir`
 - `rmdir -r dir`
 - `rm -r dir`
 - `rmdir -p dir`
31. The command that creates a directory and all parent directories is:
- `touch -p a/b/c`
 - `mkdir -r a/b/c`
 - `pwd -r a/b/c`
 - `mkdir -p a/b/c`
 - `cp -p a/b/c`
32. What is the output on your screen after this:
`mkdir d ; touch d/.a d/.b ; echo d/*`
- `d/. d/.. d/.a d/.b`
 - `d/*`
 - no output
 - `d/a d/b`
 - `d/.a d/.b`
33. What command will recursively find all pathnames named `lib` in `bar`?
- `find bar -name 'lib'`
 - `grep 'lib' bar`
 - `grep -name 'lib' bar`
 - `find lib -name 'bar'`
 - `grep bar -name 'lib'`
34. Give the minimum number of directories in this valid pathname:
`/usr/local/lib`
- 4
 - 3
 - 2
 - 1
 - 5

35. To "throw away" (hide) standard error output of a command, use:
- `cmd 2>/dev/null`
 - `cmd 2>/dev/sda1`
 - `cmd 2>&1`
 - `cmd 1>/dev/sda1`
 - `cmd 1>&2`
36. If file **a** contains 2 lines, and file **b** contains 3 lines, then how many lines are output on your screen by this: `head b | echo a`
- 1
 - 2
 - 3 followed by 1
 - 3
 - 3 followed by 2
37. The shell expands a leading tilde (~) in a pathname (e.g. ~/foo) to be:
- the parent directory
 - your HOME directory
 - the current directory
 - the directory /root
 - the ROOT directory
38. If file **a** contains 2 lines, and file **b** contains 3 lines, then how many lines are in file **c** after this: `cat a a >c ; cat c >>a ; cat c b >c a`
- 8
 - 11
 - 10
 - 9
 - 7
39. What is the output of this successful command sequence?
- ```
cd /var/tmp ; mkdir foo ; mkdir bar ; pwd
```
- /foo/bar
  - /bar
  - /var/tmp/foo/bar
  - /var/tmp
  - /tmp/foo/bar
40. What is the correct syntax to redirect both standard output and standard error into the same output file?
- `cmd 2>1 >out`
  - `cmd 1>out 2>out`
  - `cmd 1>out 2>1`
  - `cmd >out 2>&1`
  - `cmd 2>&1 >out`
41. What is in file **out** after this: `echo 1 2 >out 3`
- 1 2 3
  - 1 2
  - 1 2 >out 3
  - nothing (empty file)
  - 1 2 out 3

42. What is the output of this in an empty directory:
- ```
touch x y z x1 xyx bxy yd .yx ye ; echo [xy]?
```
- `x x1 y yd ye`
 - `[xy]?`
 - `x1 yd ye`
 - `xyx`
 - an error message from **echo** saying `[xy]?` does not exist
43. Which **CTRL** key will send an **Interrupt** to make a command end and take you back to the command prompt?
- ^U**
 - ^D**
 - ^R**
 - ^C**
 - ^E**
44. How many arguments and options are there to the command:
- ```
wc -wc ls cd
```
- Two arguments and one option.
  - Four arguments, one of which is a command name.
  - Three arguments with no options.
  - Three command names and one argument with two options.
  - Three arguments, one of which contains two options.
45. **Did you read all the words of the test instructions on page one?**
- Sim** (Yes - Portuguese)
  - Tak** (Yes - Polish)
  - Taip** (Yes - Lithuanian)
  - Jes** (Yes - Esperanto)
  - Igen** (Yes - Hungarian)