

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**

1. [50/201] What command shows all the lines in file **file** that contain the text **text**?
  - a. `fgrep text file`
  - b. `cat file | find text`
  - c. `cat file > fgrep text`
  - d. `fgrep file 'text'`
  - e. `fgrep text >file`
2. [55/202] If file **a** contains 2 lines, and file **b** contains 3 lines, then how many lines are output on your screen by this: `cat b | echo a`
  - a. 2
  - b. 3
  - c. 3 followed by 1
  - d. 1
  - e. 3 followed by 2
3. [87/200] If my current directory is **/home**, which command copies the password file into existing directory **/home/user** under the name **foo**?
  - a. `cp user/../../etc/passwd ./user/foo`
  - b. `cp ../../etc/passwd ../user/foo`
  - c. `cp ../home/./user/./etc/passwd ./user/./foo`
  - d. `cp ../../etc/./passwd /user/foo`
  - e. `cp ../user/./etc/passwd ../home/user/foo`
4. [88/202] In an empty directory, how many words are in file **c** after this:
 

```
touch a ; mv b a >b ; ls >c
```

  - a. 3
  - b. 4
  - c. 0
  - d. 2
  - e. 1

5. [89/201] In an empty directory, what is in file **bar** after this:
 

```
echo hi >bar ; ls nosuchfile | cat >bar
```

  - a. **hi**
  - b. **bar**
  - c. **nosuchfile**
  - d. an error message from **ls** saying **nosuchfile** does not exist
  - e. nothing (empty file)
6. [95/201] If **mt** is an empty sub-directory, what is true after this:
 

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

  - a. the directory **bar** now contains a file named **foo**
  - b. the directory **mt** now contains a directory named **bar**
  - c. the directory **mt** now contains a file named **foo**
  - d. the directory **mt** is still empty
  - e. the command fails because **bar/mt** is not a directory
7. [95/198] What is the output on your screen after these two command lines:
 

```
echo foo >x ; cp x y ; echo bar >>y
head x >y ; head x >x ; cat x y
```

  - a. **foo** followed by **bar**
  - b. **foo**
  - c. no output
  - d. **foo** followed by **foo**
  - e. **bar** followed by **foo**
8. [96/201] In an empty directory, what is the output on your screen after this:
 

```
date >.a ; users >.b ; ls *
```

  - a. no output
  - b. an error message from **ls** saying **\*** does not exist
  - c. **.a .b**
  - d. **\***
  - e. **. .. .a .b**
9. [99/200] 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 10 | tail -n 1
```

  - a. **1 1**
  - b. **9**
  - c. **9 9**
  - d. **1**
  - e. **10**

10. [101/201] If **mt** is an empty sub-directory, what is true after this:  
`touch bar ; mkdir foo ; mv bar mt/foo`
- the directory **foo** now contains a file named **bar**
  - the command fails because **mt/foo** is not a directory
  - the directory **mt** now contains a file named **bar**
  - the directory **mt** is still empty
  - the directory **mt** now contains a file named **foo**
11. [101/201] If my current directory is **/usr**, which of these pathnames is equivalent to the file name **/bin/bash**?
- /usr/bin/./bash**
  - ./../bin/bash**
  - ./bin/bash**
  - /root/bin/bash**
  - ../bin/bash/.**
12. [102/201] What is the output of this in an empty directory:  
`date >.bar ; touch .foo ; echo .*`
- .\***
  - .. .bar .foo**
  - an error message from **echo** saying **.\*** does not exist
  - .bar**
  - .bar .foo**
13. [106/203] In an empty directory, how many words are in file **c** after this:  
`touch a b ; rm b ; ls >c`
- 0**
  - 3**
  - 1**
  - 4**
  - 2**
14. [110/203] How do I search for the string **text** in the paginated output from the **man** command on my screen?
- help text**
  - grep text**
  - find text**
  - @text**
  - /text**
15. [111/201] Which **CTRL** key will send an **EOF** to a command reading your keyboard, and take you back to the command prompt?
- ^C**
  - ^U**
  - ^D**
  - ^E**
  - ^R**

16. [112/201] What is the correct syntax to redirect both standard output and standard error into the same output file?
- cmd 2>&1 >out**
  - cmd 2>1 >out**
  - cmd 1>out 2>out**
  - cmd >out 2>&1**
  - cmd 1>out 2>1**
17. [113/201] What is the output of this in an empty directory:  
`touch 1 13 .13 2 213 3 30 31 .31 ; echo [13]*`
- an error message from **echo** saying **[13]\*** does not exist
  - 13**
  - 13 .13 213**
  - [13]\***
  - 1 13 3 30 31**
18. [114/202] Which pathname almost always leads to the same file named: **/bin/ls**
- /bin/ls/.**
  - ./bin/ls**
  - ../bin/ls**
  - ./../bin/./ls**
  - /bin/./bin/ls**
19. [116/199] If file **a** contains 2 lines, and file **b** contains 3 lines, then how many lines are in file **c** after this:  
`cat a b >c ; cat b >>a ; cat c a >c b`
- 10**
  - 13**
  - 8**
  - 0**
  - 7**
20. [117/202] If **mt** is an empty sub-directory, what is true after this:  
`touch mt/bar ; mkdir bar ; mv mt/bar bar/me`
- the **mkdir** fails because **bar** already exists
  - there is a second copy of the file **bar** in the file named **me**
  - the command fails because the name **bar/me** does not exist
  - the directory **mt** is now empty
  - the directory **mt** now contains only a file named **me**

21. [117/203] What command will recursively find all pathnames named **foo** in directory **/etc**?
- `ls -R 'foo' /etc`
  - `grep /etc -basename 'foo'`
  - `grep 'foo' /etc`
  - `find /etc 'foo'`
  - `find /etc -name 'foo'`
22. [120/202] In an empty directory, what is the output on your screen of this:
- ```
echo foo >a >b ; head a
```
- `head: a: No such file or directory`
  - `foo >a >b`
  - no output
  - `foo foo`
  - `foo`
23. [123/202] If file **a** contains 2 lines, and file **b** contains 3 lines, then how many lines are output on your screen by this: `mv a b | head`
- 2 followed by 3
  - 2
  - 3 followed by 2
  - no output on screen
  - 3
24. [124/202] Which displays all the non-hidden names in the current directory that contain the letter **z** (and no other names)?
- `echo [z]`
  - `echo ?z?`
  - `echo *z*`
  - `echo z*`
  - `echo *z`
25. [130/201] What is in file **a** after this: `echo 1 2 >a 3 4`
- 1 2
  - 1 2 3 4
  - nothing (empty file)
  - 3 4
  - 12

26. [133/202] If I am in directory **/tmp** and **mt** is an empty sub-directory, what is true after this:
- ```
touch mt/bar ; mkdir mt/me ; cp mt/bar ./mt/../me
```
- there is a second copy of the file **bar** in file **/tmp/me**
  - the command fails because the name **mt/bar** does not exist
  - the directory **mt** now contains only a file named **me**
  - the directory **mt** is now empty
  - there is a second copy of the file **bar** in directory **mt**
27. [133/202] What is the output on your screen after this:
- ```
mkdir dir ; touch a b dir/.a dir/.b ; echo dir/*
```
- `dir/.a dir/.b`
  - `dir/*`
  - no output
  - `dir/ dir/.. dir/.a dir/.b`
  - `dir/a dir/b`
28. [134/202] Given the pathname **/a/b/c**, the *basename* of this pathname is:
- `/`
  - `a`
  - `/a/b`
  - `b`
  - `c`
29. [135/202] How many arguments and options are there to the command:
- ```
ls -la ls wc cd
```
- Four pathname arguments and no options.
  - One option and four command names.
  - Three command line arguments and one option.
  - Four command line arguments, one of which contains two options.
  - Four command line arguments with no options.
30. [135/202] How many lines are in file **a** after this:
- ```
date >a ; date >a ; date >>a ; date >>a
```
- 3
  - 2
  - 0
  - 1
  - 4

31. [135/203] Which displays all the non-hidden names in the current directory that contain the case-insensitive word **ian** (and no other names)?

- a. `echo *[ianIANIaniAniaNIAnIaNiAN]*`
- b. `echo *(I,i,A,a,N,n)*`
- c. `echo *[Ii][Aa][Nn]*`
- d. `echo *[IiAaNn]*`
- e. `echo *[ian,IAN,Ian,iAn,iaN,IAN,IaN,ian]*`

32. [136/202] Which of these will make file **foo** contain all of the content of file **a** followed by all of the content of file **b**?

- a. `echo a b >foo`
- b. `mv a b >foo`
- c. `cat a >foo ; cat b >>foo`
- d. `cp a b >foo`
- e. `cp a >foo ; cp b >>foo`

33. [137/202] Which deletes a directory and everything inside it?

- a. `rmdir -r dir`
- b. `rmdir -all dir`
- c. `rm -r dir`
- d. `rm -all dir`
- e. `deltree -all dir`

34. [141/202] If file **a** contains 2 lines, and file **b** contains 3 lines, then how many lines are output on your screen by this: `cat b | head a`

- a. 3 followed by 2
- b. 2
- c. 3
- d. 2 followed by 3
- e. 5

35. [143/202] Give the minimum number of directories in this valid pathname:

`/a/b/c/d`

- a. 5
- b. 4
- c. 2
- d. 3
- e. 6

36. [143/201] 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 3 | head -n 1`

- a. 1
- b. 6 6
- c. 6
- d. 1 1
- e. 8

37. [146/202] In a directory that contains only the file **a**, what happens after this:

`cp a b`

- a. there is only the file named **b** in the directory now
- b. the command fails because the name **b** does not exist
- c. the command fails because **b** is not a directory
- d. there is a copy of the file named **a** in the file named **b**
- e. an empty file named **b** is created

38. [153/201] The shell expands a leading tilde (~) in a pathname (e.g. `~/foo`) to be:

- a. the parent directory
- b. the ROOT directory
- c. the current directory
- d. the directory `/root`
- e. your HOME directory

39. [157/201] What is the output of this successful command sequence?

`cd /tmp ; mkdir foo ; mkdir bar ; pwd`

- a. `/tmp`
- b. `/tmp/bar`
- c. `/bar`
- d. `/tmp/foo/bar`
- e. `/tmp/foo`

40. [158/201] In a manual page **SYNOPSIS** section, ellipsis (three dots) (`...`) mean:

- a. something that is optional
- b. a hidden directory
- c. no special meaning
- d. something that is repeated
- e. the parent directory

41. [159/201] To "throw away" (hide) standard error output of a command, use:

- a. `cmd 1>/dev/sda1`
- b. `cmd 2>/dev/null`
- c. `cmd 2>&1`
- d. `cmd 2>/dev/sda1`
- e. `cmd 1>&2`

42. [161/201] The option to `ls` that shows hidden names is:

- a. `-a`
- b. `-l`
- c. `-1`
- d. `-h`
- e. `-i`

43. [162/203] Which **CTRL** key will send an **Interrupt** to make a command end and take you back to the command prompt?

- a. `^U`
- b. `^D`
- c. `^R`
- d. `^E`
- e. `^C`

44. [168/201] The command that creates a directory and all parent directories is:

- a. `touch -r a/b/c`
- b. `mkdir -p a/b/c`
- c. `mkdir -r a/b/c`
- d. `touch -rf a/b/c`
- e. `touch -p a/b/c`

45. [172/200] **Did you read all the words of the test instructions on page one?**

- a. **Jes** (Yes - Esperanto)
- b. **Sim** (Yes - Portuguese)
- c. **Igen** (Yes - Hungarian)
- d. **Tak** (Yes - Polish)
- e. **Taip** (Yes - Lithuanian)

*This page intentionally left blank.*