-1-

-2-

	INT Name:	2 44 Questions	LAB Section: Weight 15%	7.	[37/82] In /var/lib using ls -l shows a symbolic link foo -> /bin/cat then dereference the absolute path of foo with no symbolic links:		
One-Answer Multiple Choice 44 Questions Weight 15%  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.  Leave the last question about reading all these test instructions blank. No answer. Neniu				f.	<pre>a. /bin/cat</pre>		
				e. 8.	8. [37/82] What does this command print: awk '{print \$NF}'		
					<ul> <li>a. field number N followed by field number F</li> <li>b. the first field</li> <li>c. the last field</li> </ul>		
l.	[21/81] What is the output on your screen of this unquoted command line:  mkdir a; touch b a/b a/bb; find a -name b*				<ul> <li>c. the last field</li> <li>d. the number of fields</li> <li>e. the shell variable \$NF</li> </ul>		
	<ul><li>a. a/b a/bb</li><li>d. a/b</li></ul>	<ul><li>b. b bb</li><li>e. b a/b a/bb</li></ul>	<i>c</i> . no output	9.	9. [38/82] If /bin/foo is a program that outputs mom and /usr/bin/foo is a program that outputs dad what would be the output on your screen of this three command sequence:		
2.	[32/82] In an empty direction touch a .b .c	ctory, how many words are	in file c after this:		PATH=/bin/foo:/usr/bin/foo:/usr ; cd /bin ; foo		
3.	a. 4 b. 2	c. 1 d.  I line below shows only line   tail -n 6			<ul> <li>a. bash: foo: command not found</li> <li>b. dad followed by mom</li> <li>c. mom followed by dad</li> <li>d. mom</li> <li>e. dad</li> </ul>		
	c. head -n 6 foo   tail -n 10 d. tail -n 10 foo   head -n 6			10.	. [38/82] In an empty directory, how many words are in file c after this: echo a >x; echo b >y; mv z a >z; ls >c		
	e. tail -n 15 foo	•			a. 1 b. 2 c. 4 d. 3 e. 0		
1.	[35/82] File <b>a</b> contains 2 output on your screen by t	his: cat b   echo a	•	11.	. [40/82] In an empty directory, what is in file <b>foo</b> after this: <b>echo hi &gt;foo</b> ; <b>ls bar &gt;foo</b>		
	a. 3 b. 4	c. 1 d.	5 <i>e</i> . 2		a. hi b. bar		
5.	lines are in file c after this				c. foo d. ls: cannot access bar e. nothing (empty file)		
		e; ln e c; sort $c$ . 5 $d$ .		12.	12. [42/81] File a occupies one disk block. How many disk blocks are in use after this sequence of commands:  cp a b; ln b c; cp c d; cp a c		
_							
).	[36/82] In an empty directory, how many words are in file c after this:  echo Don't "redirect". >a Can't do. >b; ls >c				a. 1 b. 2 c. 0 d. 3 e. 4		
	a. <b>4</b> b. 3	c. <b>2</b> d.	e. 0				

sort a b >c; cat a >>b; sort c b >c a

a. 7 b. 0 c. 8 d. 12 e. 5

14. [44/82] Which command line outputs /bin/date?

a. cd /bin ; echo date b. which date

c. cd /bin ; ls date d. touch /bin/date

e. cat /bin/date

15. [44/82] Which pathname almost always leads to the same file named: /etc/passwd

a. /etc/./passwd b. /./etc/./passwd/.

c. /etc/../passwd d. ./etc/passwd

e. /././etc/passwd

16. [46/82] File **a** occupies one disk block. How many disk blocks are in use after this sequence of commands:

cp a b; ln b c; cp c d; cp a c; rm a b a. 5 b. 4 c. 3 d. 1 e. 2

17. [48/81] Dereference the following symlink xyz into its equivalent absolute path: ln -s ../../a/../foo /tmp/a/b/xyz

a. /tmp/foo

b. /tmp/a/foo

c. /tmp/b/xyz

d. /tmp/b/foo

e. /tmp/a/b/xyz

18. [48/82] If /bin/foo is a program that outputs mom and /usr/bin/foo is a program that outputs dad what would be the output on your screen of this three command sequence:

PATH=/bin/foo:/usr/bin/foo:/usr; cd /bin; ./foo

a. dad followed by mom

b. mom

c. bash: ./foo: no such file or directory

d. mom followed by dad

e. dad

a. PATH=\$PATH:assignment07check

b. PATH=\$PATH:~idallen/cst8207/17w/assignment07

c. PATH=which assignment07check

d. \$PATH=PATH:~idallen/cst8207/17w/assignment07

e. PATH=whereis assignment07check

20. [49/82] Dereference the following symlink xyz into its equivalent absolute path: ln -s /bin/bash /tmp/a/b/xyz

a. /bin/a/bash

b. /tmp/bash

c. /bin/bash

d. /bin/b/xyz

e. /bin/a/b/xyz

21. [50/81] Create a symbolic link under /etc named bar that has target foo:

a. ln -s /etc/bar '/etc/foo'

b. ln -s 'foo' '/etc/bar'

c. ln -s '/etc/foo' /etc/bar

d. ln -s bar/foo /etc

e. ln -s /etc/bar 'foo'

22. [52/82] Given this long listing of a directory:

drwxr-xr-x 448 me me 296 Dec 4 9:12 dir How many subdirectories lie immediately under dir?

*a.* 448

*b*. **446** 

*c*. **294** 

d. 296

e. not enough information given

23. [52/82] How do I search for the string **text** in the paginated output from the **man** or **less** commands on my screen?

a. find text

b. /text

c. Qtext

d. help text

e. grep text

24. [52/82] If I am in directory /tmp and dir is an empty sub-directory, what is true after this command line:

mkdir bar ; touch foo ; mv foo bar/dir

a. the directory **dir** now contains a file named **foo** 

b. the directory bar now contains a file named foo

c. the directory  $\operatorname{\mathtt{dir}}$  now contains a directory named  $\operatorname{\mathtt{bar}}$ 

d. the command fails because  $\mathtt{bar/dir}$  is not a directory

e. the directory  $\operatorname{dir}$  is still empty

25. [53/82] How many arguments are passed to the command by the shell: echo It's not hard, it's just logical.

a. 6

b. 4

c. 5

-5-

*d*. 3

e. 7

26. [53/81] If files occupy one disk block, how many disk blocks will the system free up if I remove these four file names:

111 -rw-r--r-- 2 me me 1 Jan 1 1:00 a

111 -rw-r--r-- 2 me me 1 Jan 1 1:00 b

222 -rw-r--r-- 3 me me 1 Jan 1 1:00 c

222 -rw-r--r-- 3 me me 1 Jan 1 1:00 d

a. 4

b = 0

c 2

d 3 e. 1

27. [53/82] Which command displays pathnames starting with **foo**?

a. cat foo+

b. find foo%

c. which fool

d echo foo& e. echo foo\*

28. [54/81] If a shell GLOB pattern fails to match anything, the shell:

a. gives an error message and does not execute

b. passes the pattern unchanged to the command

c. gives a warning message but continues

d. returns the closest match to the pattern

e. removes the pattern and passes nothing

29. [54/82] What is in file **c** after this command line:

echo xx >a ; ln a b ; echo yy >b ; ln a c ; rm a b

a. no such file (nonexistent)

b. **xx** followed by **yy** 

c. **xx** 

d. nothing (empty file)

e. yy

30. [54/82] What is the output of this in an empty directory:

mkdir abc cba ab a ; echo [abc]

a. an error message from **echo** saying [abc] does not exist

*b*. **a** 

c. abc

d. abc cba

e. a ab abc

31. [55/82] How many files are touched?

touch " 1 '2 3' 4 "5 6 ' 7 "8 '

*a*. 3

b. 2

c. 4

d. 6

*e*. 5

32. [55/82] If files occupy one disk block, how many disk blocks will the system free up if I remove these four file names:

111 -rw-r--r-- 1 me me 1 Jan 1 1:00 a

222 -rw-r--r-- 2 me me 1 Jan 1 1:00 b

222 -rw-r--r-- 2 me me 1 Jan 1 1:00 c

333 -rw-r--r-- 3 me me 1 Jan 1 1:00 d d 2

h 1

a. 4 b. 1

c = 0

e. 3

33. [56/82] File a contains 2 lines. File b contains 3 lines. How many lines are output on your screen by this command line: cat b | touch a

*a*. 5

c. 2

d. 4

d. no output

e. 3

34. [56/82] If files occupy one disk block, how many disk blocks will the system free up if I remove these four file names:

111 -rw-r--r-- 1 me me 1 Jan 1 1:00 a

222 -rw-r--r-- 2 me me 1 Jan 1 1:00 b

444 -rw-r--r-- 2 me me 1 Jan 1 1:00 c

444 -rw-r--r-- 2 me me 1 Jan 1 1:00 d

a. 3

*b.* 0

c. 1

e. 2

e. 3

35. [57/82] What is the link count of directory **x** after this set of successful commands? mkdir x : mkdir x/a x/b x/a/b x/b/c x/b/d

a. 4

*b*. 5

c. 6

d. 2

36. [58/81] What is the output of this in an empty directory:

date >.abc ; touch .dog ; echo .?\*

a. an error message from **echo** saying .?\* does not exist

b. .?\*

c. .abc .dog

d. .dog

e. . . . abc . dog

37. [61/82] If files occupy one disk block, how many disk blocks will the system free up if I remove these four file names:

111 -rw-r--r-- 3 me me 1 Jan 1 1:00 a

111 -rw-r--r-- 3 me me 1 Jan 1 1:00 b

222 -rw-r--r-- 3 me me 1 Jan 1 1:00 c

222 -rw-r--r-- 3 me me 1 Jan 1 1:00 d

*a*. 0

b. 3

c. 1

d. 2

e. 4

38. [61/82] In /var/lib using ls -l shows a symbolic link bar -> ../abc/foo then dereference the absolute path of bar with no symbolic links:

-7-

```
a. /var/lib/abc/foo/bar
```

- b. /var/lib/bar/../abc/foo
- c. /var/lib/abc/foo
- d. /var/abc/foo
- e. /var/bar/../abc/foo

39. [62/82] If I am in directory /etc and d is an empty sub-directory, what is true after this command line:

```
touch d/foo; mkdir d/x; cp d/foo ./d/../x
```

- a. the directory **d** now contains only a file named **x**
- b. there is a second copy of the file **foo** in directory **d**
- c. the directory **d** is now empty
- d. there is a second copy of the file **foo** in file /etc/x
- e. the command fails because the name **d/foo** does not exist

40. [63/82] If files occupy one disk block, how many disk blocks will the system free up if I remove these four file names:

```
111 -rw-r--r-- 1 me me 1 Jan 1 1:00 a
```

- 222 -rw-r--r-- 1 me me 1 Jan 1 1:00 b
- 333 -rw-r--r--1 me me 1 Jan 1 1:00 c
- 444 -rw-r--r-- 2 me me 1 Jan 1 1:00 d
- a. 4

- c. 2
- d. 1

e. 0

41. [63/82] If my current directory is /etc/vim, which of these pathnames is equivalent to the file name /etc/passwd?

```
a. /etc/vim/./passwd
```

*b*. 3

b. ../etc/passwd

c. ../passwd

d. ./passwd

e. ./etc/passwd

42. [64/82] What is true about this output from 1s -il foo bar

15 -rwxrwxrwx 2 bin bin 3 Jul 31 12:33 foo

15 -rwxrwxrwx 2 bin bin 3 Jul 31 12:33 bar

- a. foo and bar are two of three names for the same file
- b. foo and bar are names for different files
- c. **foo** and **bar** each have three names (six names total)
- d. foo and bar are names for the same file
- e. this output is not possible

43. [68/82] If files occupy one disk block, how many disk blocks will the system free up if I remove these four file names:

```
111 -rw-r--r-- 1 me me 1 Jan 1 1:00 a
222 -rw-r--r-- 2 me me 1 Jan 1 1:00 b
```

333 -rw-r--r-- 2 me me 1 Jan 1 1:00 c

444 - rw - r - r - 1 me me 1 Jan 1 1:00 d c. 1

b. 0 a. 4

d. 2

*e*. 3

44. [70/82] How do you execute the program **bar** in the current directory?

44 M/C Ouestions

b. \$HOME/bar

e. ./bar