-1-

-2-

PRINT Name:One-Answer Multiple Choice 44 Questions	LAB Section: Weight 15%	5.	[38/89] Which command line bear a. head -n 10 foo tail b. head -n 6 foo tail		00?		
Read all the words of these instructions and both side Manage your time. Answer questions you know, first. PRINT your Name and Lab on this Question Sheet. Use your full, unabbreviated name on the mark-sense Enter your NAME, Student Number, and Answers. Fi	One Answer per question. You may write or draw on this sheet. form. Do not abbreviate your name.	6.	 c. tail -n 15 foo head -n 5 d. tail -n 10 foo head -n 6 e. head -n 10 foo tail -n 5 [40/90] If /bin/foo is a program that outputs one and /usr/bin/fo 				
Leave the last question about reading all these test instal. [15/88] What is the output on your screen of the mkdir a; touch bl a/bl a/b2	is command line: ; find a -name b? a/b1 a/b2		is a program that outputs two what would be the output on your screen of the two command sequence: PATH=/etc:/usr:/bin:/usr/bin; fo a. two followed by one b. one followed by two c. bash: foo: command not found d. one e. two				
e. a/b1 a/b2 2. [21/90] In an empty directory, how many word command line: echo b .d >c >.out; a. 2 b. 0 c. 4	s are in file foo after this	7.	[42/90] If my current directory is equivalent to the file name /bin/a/bin/bash c/bash e. bin/bash	s /bin, which of these pathnames is /bash? b. bash d/bin/bash/.	;		
	date? uch /bin/date /bin ; ls date	8.	•	ng symlink bar into its equivalent at foo /tmp/a/b/bar b. /tmp/b/bar d. /tmp/a/b/bar	osolute		
4. [36/88] In /home/abcd0001 using ls -l shows a symbolic link foo -> /bin/ls then dereference the absolute path of foo with no symbolic links: a. /home/abcd0001/bin/ls/foo b. /home/abcd0001/foo/bin/ls c. /bin/ls d. /foo/bin/ls			 e. /tmp/b/foo 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; ln a e; cp a d; rm a. 1 b. 2 c. 3 d. 5 e. 4 full display="block">(45/88) 				
e. /home/abcd0001/bin/1s			command line: echo >.bar f abar b* c. an error message from echo sa d. foo ebar	foo ; echo .*			

11. [46/87] Given this long listing:

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

- a. 446
- *b*. **448**
- c. there is not enough information shown to answer the question
- d. 296
- e. 294
- 12. [46/90] In an empty directory, what is in file out after this command line:

 cat foo | wc -w >out
 - a. foo

b. out

c. 0

d. nothing (empty file)

e. 1

- 13. [47/90] What is true about this output from ls -il foo bar?
 - 15 -rwxrwxrwx 2 bin bin 3 Jul 31 12:33 foo
 - 15 -r--r-- 2 bin bin 3 Jul 31 12:33 bar
 - a. foo and bar are names for the same file
 - b. this output is not possible
 - c. foo and bar each have three names (six names total)
 - d. foo and bar are names for different files
 - e. foo and bar are two of three names for the same file
- 14. [47/89] Which line allows the shell to find the assignment07check command?
 - a. PATH=\$PATH:assignment07check
 - b. PATH=whereis assignment07check
 - c. PATH=\$PATH:~idallen/cst8207/18w/assignment07
 - d. PATH=assignment07check: \$PATH
 - e. PATH=which assignment07check
- 15. [50/89] Give the minimum number of directories in this pathname:

a. 4

b. 1

c. 3

d. 5

e. 2

16. [51/89] If /bin/foo is a program that outputs one and /usr/bin/foo is a program that outputs two what would be the output on your screen of this two command sequence: PATH=/home:/bin/foo:/usr; foo

- a. one
- b. bash: foo: command not found
- c. one followed by two
- d. two followed by one
- e. two
- 17. [53/90] File **a** contains 2 lines, and file **b** contains 3 lines, then how many lines are in file **c** after this command line:

ln a d; ln d c; cat a b >c

a. 0

b. 2

c. 4

d. 3

e. 5

18. [54/89] Create a symbolic link under /tmp named bar that has target foo:

- a. ln -s '/tmp/foo' /tmp/bar
- b. ln -s 'foo' '/tmp/bar'
- c. ln -s /tmp/bar '/tmp/foo'
- d. ln -s /tmp/bar 'foo'
- e. ln -s bar/foo /tmp
- 19. [54/88] File **a** occupies one disk block. How many disk blocks are in use after this sequence of commands:

cpab; lnbc; cpcd; cpac; rmab

a. 4

b. 3

c. 1

d. 2

e. 5

20. [56/88] If I am in directory /tmp and sd is an empty sub-directory, what is true after this command line:

mkdir bar ; touch foo ; mv foo bar/sd

- *a.* the directory **sd** is still empty
- b. the directory bar now contains a file named foo
- c. the directory **sd** now contains a file named **foo**
- d. the command fails because bar/sd is not a directory
- e. the directory sd now contains a directory named $\operatorname{\mathtt{bar}}$
- 21. [56/89] What is the link count of directory **x** after this set of successful commands? **mkdir x**; **mkdir x/a x/a/b x/a/c x/a/d**

a. 5

b. 3

c. 2

d. 4

e. 6

22. [57/90] File a contains 2 lines. File b contains 3 lines. How many lines are in file **c** after this command line:

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

a. 10

b. 12

c. 0

d. 8

e. 7

23. [58/89] File a contains 2 lines, and file b contains 3 lines, then how many lines are in file **c** after this command line:

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

a. 12

b. 7

c. 5

d. 8 e. 0

24. [58/89] In /usr/bin using ls -1 shows a symbolic link foo -> ../d/bar then dereference the absolute path of foo with no symbolic links:

a. /usr/bin/foo/../d/bar

b. /usr/d/bar

c. /usr/bin/d/bar

d. /usr/foo/../d/bar

e. /usr/bin/d/bar/foo

25. [59/89] How many arguments are passed to the command by the shell:

echo " 1 '2 3' 4 "55 66 ' 7 "8 '999 >out

a. 6

h. 4

c. 2

d. 5

e. 3

26. [59/89] If a shell GLOB pattern fails to match anything, the shell:

a. gives an error message and does not execute

b. returns the closest match to the pattern

c. gives a warning message but continues

d. removes the pattern and passes nothing

e. passes the pattern unchanged to the command

27. [59/88] What is in file **c** after this command line:

echo hi >a ; ln a b ; echo me >b ; ln a c ; rm a b

a. hi followed by me

b. nothing (empty file)

c. me

d hi

e. no such file (nonexistent)

28. [62/89] File a occupies one disk block. How many disk blocks are in use after this sequence of commands:

cpab; lnbc; lncd; lnae; rmabc

a. 4

h. 2

c. 3

d. 1

29. [62/89] Which pathname almost always leads to the same file named: /bin/ls

a. /bin/./bin/../ls

h. ./bin/ls

c. /./bin/./ls/.

d. /./bin/./ls

e. /bin/../ls

30. [64/89] 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. 3

c. 2

d. 1

e. 4

31. [65/89] File a occupies one disk block. How many disk blocks are in use after this sequence of commands:

ln a b; ln b c; cp c d; ln c e; rm a b c d

a. 4

b. 3

b. 0

c. 2

d. 1

e. 5

32. [65/89] 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. 3

b. 4

c. 0

d. 1

d. 6

e. 2

33. [66/89] How many files are touched or created?

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

a. 3

h 2

c. 4

e. 5

34. [67/89] What is the link count of directory **x** after this set of successful commands?

mkdir x ; cd x ; touch a ; ln a b ; mkdir c d b. 6 a. 7

c. 5

d. 3

e. 4

e. 5

35.	[67/89]	What is true	about this	output from	ls	-il	foo	bar
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- 23 -rwxrwxrwx 2 bin bin 3 Jul 31 12:33 foo
- 23 -rwxrwxrwx 2 bin bin 3 Jul 31 12:33 bar
- a. this output is not possible
- b. foo and bar are names for different files
- c. **foo** and **bar** are two of three names for the same file
- d. foo and bar are names for the same file
- e. foo and bar each have three names (six names total)
- 36. [68/89] What is true about this output from 1s -il foo bar
 - 111 -rwxrwxrwx 2 bin bin 3 Jul 31 12:33 foo
 - 222 -rwxrwxrwx 2 bin bin 3 Jul 31 12:33 bar
 - a. foo and bar are names for different files
 - b. foo and bar each have three names (six names total)
 - c. foo and bar are two of three names for the same file
 - d. foo and bar are names for the same file
 - e. this output is not possible
- 37. [69/89] 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
 - 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. 4
- c. **1**
- *d*. 0
- 38. [73/87] 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
 - a. 3 b. 0
- c. 2
- d. 1
- e. **4**

e. 2

- 39. [74/89] 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. 0 b. 3
- c. 1
- d. 4
- e. 2

- 40. [75/89] 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-- 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 c
- 41. [77/87] A "dangling symlink" is a symlink to:
 - a. a parent directory

b. a non-existent target

c. a special device file

d. a directory

- e. the current directory
- 42. [77/90] File **a** contains 2 lines. File **b** contains 3 lines. How many lines are output on your screen by this command line: **cat a** | **cat b**
 - *a*. 3

b. 2

c. 5

e. 2

- *d.* **2** followed by **3**
- e. 3 followed by 2
- 43. [77/89] How do you execute the program bar in the current directory?
 - a. /bar
- b. bar/

- c. bar/.
- d. \$HOME/bar e. ./bar
- 44. [79/89] Rewrite as a simplified absolute path (assume all directories exist): /lib/./bin/../usr/../etc/../lib/./usr/../bin/./bar
 - a. /bar

b. /lib/bin/bar

c. /lib/usr/bar

d. /lib/bar

e. /etc/bar