PRINT Name: LAB Section: One-Answer Multiple Choice 45 Questions Weight 15% Read all the words of these instructions and both sides (back and front) of all pages.	4. If files occupy one disk block, how many disk blocks will the system free up if I remove these four file names: 111 -rw-rr- 1 me me 1 Jan 1 1:00 a 222 -rw-rr- 1 me me 1 Jan 1 1:00 b 333 -rw-rr- 1 me me 1 Jan 1 1:00 c
 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 	 5. What is the output on your screen of this unquoted command line: mkdir a; touch b a/b a/bb; find a -name b*
191. Answer 191 is	 a. a/b b. no output c. a/b a/bb d. b a/b a/bb e. b bb 6. Which pathname almost always leads to the same file named: /etc/passwd a. /etc//passwd b. /././etc/passwd c. /etc/./etc//passwd d. /./etc/./passwd/. e/etc/passwd
 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 is still empty b. the command fails because bar/dir is not a directory c. the directory dir now contains a directory named bar d. the directory dir now contains a file named foo e. the directory bar now contains a file named foo File a contains 2 lines, and file b contains 3 lines, then how many lines are in 	 7. What is the output of this in an empty directory: mkdir abc cba ab a; echo [abc] a. a ab abc b. an error message from echo saying [abc] does not exist c. abc cba d. a e. abc 8. If a shell GLOB pattern fails to match anything, the shell: a. gives a warning message but continues b. passes the pattern unchanged to the command
file c after this command line: sort a b >c; cat a >>b; sort c b >c a a. 8 b. 5 c. 12 d. 7 e. 0	 c. returns the closest match to the pattern d. gives an error message and does not execute e. removes the pattern and passes nothing

c. find text

3. How do I search for the string text in the paginated output from the man or

b. @text

e. /text

less commands on my screen?

a. help text

d. grep text

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9. Dereference the following symlink **xyz** into its equivalent absolute path:

b. /tmp/a/foo

d. /tmp/foo

ln -s ../../a/../foo /tmp/a/b/xyz

a. /tmp/a/b/xyz

c. /tmp/b/foo

e. /tmp/b/xyz

45 M/C Questions	-3-	45 minut	res 45 M/C Questions -4- 45 minu		
 10. What does this command print: awk '{print \$NF}' a. the number of fields b. field number N followed by field number F c. the shell variable \$NF 		nt \$NF}'	16. 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; ./fo		
d. the first fielde. the last field			a. dadb. dad followed by mom		
11. Which command line below shows only lines 5–10 of file foo ?		5–10 of file foo ?	c. momd. bash: ./foo: no such file or directorye. mom followed by dad		
 a. tail -n 10 foo head -n 6 b. tail -n 15 foo head -n 5 c. head -n 6 foo tail -n 10 d. head -n 10 foo tail -n 5 e. head -n 10 foo tail -n 6 			17. In an empty directory, how many words are in file c after this: touch a .b .c; ls >c a. 0 b. 3 c. 2 d. 4 e. 1		
 12. In /var/lib using ls -1 shows a symbolic link bar ->/abc/foo then dereference the absolute path of bar with no symbolic links: a. /var/bar//abc/foo b. /var/abc/foo c. /var/lib/abc/foo d. /var/lib/abc/foo/bar e. /var/lib/bar//abc/foo 13. How many arguments are passed to the command by the shell: echo It's not hard, it's just logical. 			18. What is true about this output from ls -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 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 two of three names for the same file e. this output is not possible 		
		t logical.	19. File a occupies one disk block. How many disk blocks are in use after this sequence of commands:		
a. 4 b. 6	<i>c</i> . 5	d. 3 e. 7	cpab; lnbc; cpcd; cpac; rmab		
14. How do you execute th		•	a. 3 b. 2 c. 1 d. 5 e. 4		
a/bard/bar	b. /bar e . bar/	c. \$HOME/bar	20. If I am in directory /etc and d is an empty sub-directory, what is true after this command line:		
15. Dereference the following symlink xyz into its equivalent absolute path: ln -s /bin/bash /tmp/a/b/xyz			touch d/foo; mkdir d/x; cp d/foo./d//x a. there is a second copy of the file foo in file /etc/x		
a. /bin/a/bash b. /tmp/bash c. /bin/bash d. /bin/a/b/xyz e. /bin/b/xyz		tmp/bash	b. there is a second copy of the file foo in directory d c. the directory d is now empty d. the directory d now contains only a file named x e. the command fails because the name d/foo does not exist		
			21. 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		
			a. 2 b. 3 c. 4 d. 1 e. 0		

22. In an empty directory, what is in file **foo** after this:

echo hi >foo ; ls bar >foo

a. nothing (empty file)

b. ls: cannot access bar d. foo

c. bar e. hi

23. 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. 2

b. 4

c. 1

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d. 3 e. 0

24. 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. 446

b. 296

c. 448

d. 294

e. not enough information given

25. Which line allows the shell to find the **assignment07check** command?

a. PATH=\$PATH:assignment07check

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

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

d. PATH=which assignment07check

e. PATH=whereis assignment07check

26. 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

a. 0

c. 2

d. 1

e. 3

27. File **a** contains 2 lines. File **b** contains 3 lines. How many lines are output on your screen by this: cat b | echo a

a. 1

b. 4

c. 3

d. 5

e. 2

28. If my current directory is /etc/vim, which of these pathnames is equivalent to the file name /etc/passwd?

a. ../passwd

b. /etc/vim/./passwd

c. ./passwd

d. ./etc/passwd

e. ../etc/passwd

29. If files occupy one disk block, how many disk blocks will the system free up if I remove these four file names:

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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

b. 0 a. 2

c. 1

d 4

45 minutes

e. 3

30. Create a symbolic link under **/etc** named **bar** that has target **foo**:

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

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

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

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

e. ln -s bar/foo /etc

31. 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. no output

b. 5

c. 1

d. 2

e. 3

32. Which command displays pathnames starting with **foo**?

a. echo foo&

b. echo foo*

c. find foo%

d. which fool e. cat foo+

33. 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. mom followed by dad

d. dad

e. bash: foo: command not found

34. 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. 3

h 6

c. 2

d. 4

e. 5

35. In /var/lib using ls -1 shows a symbolic link foo -> /bin/cat then dereference the absolute path of **foo** with no symbolic links:

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```
a. /bin/cat
```

b. /foo/bin/cat

c. /var/lib/foo/bin/cat

d. /var/lib/bin/cat

e. /var/lib/bin/cat/foo

36. 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
           b. 3
                       c. 2
a. 0
```

37. How many files are touched? touch " 1 '2 3' 4 "5 6 ' 7 "8 '

a. 6

c. 2

d. 4

e. 3

e. 2

e. 1

38. 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
            b. 2
                                    d. 3
a. 0
                        c. 1
                                                e. 4
```

39. Which command line outputs the one-line pathname /bin/date?

```
a. cd /bin ; echo date
```

b. 5

b. cat /bin/date

```
c. cd /bin ; ls date
```

d. touch /bin/date

e. which date

40. 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. 1
           b. 0
                       c. 4
                                  d. 3
```

41. 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. nothing (empty file)
                                  b. xx
c. no such file (nonexistent)
                                  d. xx followed by yy
```

e. yy 42. 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. .dog

c. .?*

d.....abc .dog

e. .abc .dog

43. 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 e ; ln e c ; sort a b >c
            b. 0
a. 3
                                     d. 2
                        c. 5
                                                 e. 4
```

44. 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
a. 2
            h. 4
                        c. 0
                                    d. 1
                                                e. 3
```

45. Did you read all the words of the test instructions on page one?

```
a. Neniu (No - Esperanto)
```

b. Ne (No - Lithuanian)

```
c. Nie (No-Polish)
```

d. Nem (No - Hungarian)

```
e. Não (No-Portuguese)
```