1 Minute Per Question

PRINT Name:		LAB Section:
One-Answer Multiple Choice 22	29 Questions	Weight 10%
Read all the words of these instruction Manage your time. Answer question PRINT your Name and Lab on this of Use your full, unabbreviated name of Enter your NAME, Student Number, The answer to the questions below all	ns you know, first. One Question Sheet. You m n the mark-sense form. , and Answers. Fill in the	Answer per question. ay write or draw on this sheet. Do not abbreviate your name ne bubbles with pencil, no pen
191. Answer 191 is	six answers 191 thro	
1. Did you read all the words of the a. Sim (Yes - Portuguese) c. Igen (Yes - Hungarian) e. Taip (Yes - Lithuanian)	b. Tak (Ye	O

- 2. My three-digit Lab Section number is:
 - a. The timetable section number of my weekly 2-hour lab period.
 - b. The Test Version number printed in the top left corner.
 - c. My lab room number: B384, A219, B132, B185, P213
 - d. My lecture section number, e.g. **010** or **020**.
 - e. My lecture room number, e.g. T119, C346
- 3. In the output of the command **ls** -a, the one-character name . signifies what?
 - a. A name with an unprintable character.
 - b. The ROOT directory.
 - c. A current file.
 - *d.* The current directory.
 - e. The parent directory.
- 4. What is the *current directory*?
 - a. The directory named . . (dot dot)
 - I The directory named ((dot dot)
 - b. The directory that your shell (or any Unix process) is in now
 - c. The directory named /current
 - d. The directory into which you are placed when you first log in
 - e. This is where "root" goes when "root" logs in to the system

5. In an empty directory, what is the output on your screen after this command line:

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```
date >.foo >.bar ; ls *
a. no output
```

- b. *
- $\it c.$.foo .bar
- d. an error message from **ls** saying * does not exist
- e.foo .bar
- 6. If a shell GLOB pattern fails to match anything, what happens by default? The shell:
 - a. gives a warning message but continues
 - b. passes the pattern unchanged to the command
 - c. returns the closest match to the pattern
 - d. gives an error message and does not execute
 - e. removes the pattern and passes nothing
- 7. Which command line below outputs only lines 11-15 of the Unix password file?

```
a. head -n 10 /etc/passwd | tail -n 15 /etc/passwd
```

- b. tail -n 10 /etc/passwd | head -n 15 /etc/passwd
- c. head -n 15 /etc/passwd | tail -n 5 /etc/passwd
- d. head -n 15 /etc/passwd | tail -n 5
- e. tail -n 15 /etc/passwd | head -n 10
- 8. Which pathname almost always leads to the same file named: /etc/shadow
 - a. /etc/../../shadow
- b. /etc/shadow/../..

c. ././etc/shadow

- d. /etc/shadow/./.
- e. /./../etc/./shadow
- 9. To prevent disconnections when using the Windows version of **PuTTY**, you should make this configuration change:
 - a. use your student number as your password
 - b. use your ACSIS password as your password
 - c. set the seconds between keepalives to 55
 - d. log in using your Blackboard userid
 - e. your password will not echo on your screen as you type

10. In an empty directory, how many words are in file **cow** after this command line:

```
touch dog dog cat; ls >cow
a. 0 b. 4 c. 1 d. 2 e. 3
```

- 11. What is the result of this exact command line: ls /foo bar
 - a. file /foo will be copied to bar
 - b. the names of the pathnames /foo and bar will be displayed
 - c. all the files under directory **/foo** with the name **bar** will be displayed
 - d. the contents of the files /foo and bar will be displayed
 - e. the two text strings **/foo** and **bar** will be displayed

a. 2

b. 0

e. ^U

e. 0

```
20. If you type the command sleep 60, which CTRL key will interrupt it and take
12. If /bin/bash is a file name, which pathname always leads to the same file?
                                                                                      you back to the command prompt?
    a. /bin/bash/.
                                          b. /../bin/./bash
                                                                                      a. ^R
                                                                                                     b. ^I
                                                                                                                                   d. ^c.
    c. /bin/bin/../bash
                                          d. ./../bin/bash
    e. /bin/../bash
                                                                                 21. If my current working directory is /home, and my HOME directory is
                                                                                      /home/me, which command copies the password file into my HOME directory
13. In a directory containing one file named mt, what is the output on your screen after
                                                                                      under the name foo?
    this command line: 1s 2>/dev/null nosuchfile
                                                                                      a. cp ../../etc/passwd /me/foo
    a nosuchfile
                                                                                      b. cp ../etc/passwd ../me/foo
    b. no output
                                                                                      c. cp me/../../etc/passwd me/foo
    c. mt
                                                                                      d. cp ./me/../etc/passwd ../home/me/foo
    d. ls: nosuchfile: No such file or directory
                                                                                      e. cp ../home/me/../etc/passwd ./me/./foo
    e. bash: 2>/dev/null: command not found
                                                                                 22. If I am in directory /home/me and mt is an empty sub-directory, what is true
14. If my current directory is /home, which of these pathnames is equivalent to the
                                                                                      after this command line: touch ./foo; mv ./mt/../foo ../me/bar
    pathname /home/a/b/c?
                                                                                      a. the directory mt now contains only a file named bar
    a. ./home/a/b/c
                             b. /a/b/c
                                                       c. ../home/b/c
                                                                                      b. there is a second copy of the file foo in the file named bar
    d. ./a/b/c
                             e. ../a/b/c
                                                                                      c. the directory mt/.. now contains a file named bar
15. If I am in my HOME directory named /home/ian and mt is an empty sub-
                                                                                      d. the command fails because path . . /me/bar does not exist
    directory, what is true after this command line:
                                                                                      e. the command fails because path ./mt/../foo does not exist
         touch ../ian/cat; cp ./mt/../cat ./mt/../dog
                                                                                 23. What is the possible output on your screen of this command line:
    a. the file named cat is now renamed to dog
                                                                                           echo wc >date ; sort date >date ; cat date
    b. the command fails because the path ./mt/../cat does not exist
    c. the directory mt now contains two files
                                                                                      a. wc
                                                                                      b. 1 6 28 date
    d. the directory mt now has a file named dog in it
    e. the directory mt is still empty
                                                                                      c. no output
                                                                                      d. Fri Mar 16 12:00:00 EST 2012
16. What is the output on your screen after this command line:
                                                                                      e. 1 6 29 date
         echo hi >ls ; cat ls > wc
                                                                                 24. If foo is a sub-directory that contains only the file bar, what happens after this
    a. no output
                             b. hi
                                                       c. 1s
                                                                                      command: mv foo/./bar foo/././me
    d. 1 1 3
                             e. 1 1 2
                                                                                      a. the command fails because the name foo/./bar does not exist
17. What command shows all the lines in file cow that contain the string pig?
                                                                                      b. the command fails because the name me does not exist
    a. grep pig <cow
                                          b. cat cow > grep pig
                                                                                      c. the directory foo is now empty
    c. grep cat cow pig
                                          d. grep pig >cow
                                                                                      d. there is a second copy of the file bar in the file named me
    e. grep cow pig
                                                                                      e. the directory foo now contains only a file named me
18. If directory dir contains these three four-character file names: .123, .124,
                                                                                 25. Which of the following commands will leave file1 non-empty?
     .???, then what is the output on your screen of this command line:
                                                                                      a. cat file1 > file1
                                                                                                                            h wc file1 > file1
         echo dir/????
                                                                                      c. tail file1 > file1
                                                                                                                            d. head file1 > file1
    a. dir/????
                                                                                      e. sort file1 > file1
    b. dir/.123 dir/.124 dir/.???
    c. echo: dir/????: No such file or directory
                                                                                 26. If file /a contains 30 lines, and file /b contains 50 lines, then how many lines are
                                                                                      in file /c after this command line:
    d. no output
                                                                                          cat /a /b >/c; sort /c >/c; sort /c /a /b >/c
    e. dir/.123 dir/.124
                                                                                                     b. 50
                                                                                                                    c. 30
                                                                                                                                   d. 80
                                                                                      a. 160
19. How many words are in file out after this command line:
         echo one >two >three >out
```

e. 3

c. 1

d. 4

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- 27. In the output of the command **ls** -a, a dot (period) that *begins* a name signifies what?
 - a. A name that is hidden.
 - *b*. The parent directory.
 - c. A current file.
 - d. A name with an unprintable character.
 - e. The current directory.
- 28. Which command below is the best way to find a line containing an asterisk (*) in the file named **foo**?
 - a. fgrep ./* foo
 c fgrep * foo

b. fgrep '*' foo

c. fgrep * foo

d. fgrep foo "*"

- e. fgrep foo [*]
- 29. Which command line below does *not* show any lines from inside the file **out**?
 - a. wc out

b. sort out

c. tail out

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- d. head out
- e. more out
- 30. If pig is a sub-directory that contains only the file dog, what happens after this command: mv pig/dog pig/././cat
 - a. the directory pig now contains only a file named cat
 - b. the command fails because the name cat does not exist
 - c. the directory **pig** is now empty
 - d. the command fails because the name pig/././cat does not exist
 - e. there is a second copy of the file dog in the file named cat
- 31. Which of the following statements is true about this command line:

<dir/c cat dir/d

- a. The command cat sees two arguments.
- b. The command dir/c sees two arguments.
- c. The command dir/c sees only one argument
- d. The command is always invalid.
- e. The command cat sees only one argument.
- 32. Which command below is the best way to find a line containing a question mark
 - (?) in the file /etc/passwd?
 - a. find '?' /etc/passwd

b. search '?' /etc/passwd

c. grep /etc/passwd '?'

d. grep '?' /etc/passwd

- e. grep './?' /etc/passwd
- 33. If **foo** is a sub-directory that contains only the file **bar**, what happens after this command: **mv foo/me foo/bar**
 - a. the command fails because the name **me** does not exist
 - b. there is a second copy of the file bar in the file named me
 - c. there is only the file named **me** in the directory now
 - d. the command fails because **bar** is not a directory
 - e. an empty file named **me** is created

34. If file **twenty** contains twenty lines, and file **thirty** contains thirty lines then how many lines are output on your screen by this command line:

tail twenty | cat thirty

a. 0 b. 30

c. 20

d. 40

e. 50

35. What command can you use to delete a directory that isn't empty?

a. rmdir -r dir

b. deldir -r dir

c. del -r dir

d. rm -r dir

e. deltree -r dir

e. deltree -r dir

36. If file foo 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 command:

sort foo foo | tail -n 5 | head -n 1

a. 1 b. 5 5

c. 1 1

d. 7

e. 9

- 37. If /bin/bash is a file name, which pathname always leads to the same file?
 - a. ./bin/bash

b. /../../bin/bash

c. /bin/../bash

d. /bin/bash/.

e. /bin/bash/..

- 38. If file /a contains 30 lines, and file /b contains 50 lines, then how many lines are output on your screen by this command line: cat /a | sort /b
 - *a*. 0
- *b*. 30
- c. 20

e. 80

- 39. Which command line lists all possible utilities available for compiling programs?
 - a. find compile

- b. man compile
- c. grep compile /etc/
- d. apropos compile

d. 50

- e. locate compile
- 40. The command that creates a directory and all parent directories is:
 - a. rm -r a/b/c

 \bar{b} . mkdir -r a/b/c

c. rmdir -r a/b/c

d. mkdir -p a/b/c

- e. touch a/b/c
- 41. Which of these command line will make **bar** contain all of the content of **f1** followed by all of the content of **f2**?

a. wc f1 f2 >bar

b. cat f1 f2 >bar

c. cp f1 f2 >bar

d. mv f1 f2 >bar

e. echo f1 f2 >bar

42. If I am in my HOME directory named **/home/myhome** and **dir** is an empty sub-directory, what is true after this command line:

touch new; mv ./dir/../new ../myhome/old

- $\it a$. the command fails because the path ./dir/../new does not exist
- b. the parent directory of dir now has a file named old in it
- c. the command fails because the path . ./myhome/old does not exist d. there is a second copy of the file new in the file named old
- e. the directory **dir** now contains only a file named **old**

43. How many lines are in file **out** after this command line:

echo hi >dog >out >cat

a. 2

b. 1

c. 4

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d. 3

e. 0

44. What can you do to get back (redo) the last command you typed?

a. Use the "PageUp" key.

b. Use the "**UpArrow**" key.

c. Type [CTRL]-[BACKSPACE]

d. Type [ALT]-[F2]

e. Type [CTRL]-[ALT]-[UP]

45. If file **foo** contains 99 lines, each of which is the two-digit line number of the line in the file (01 through 99), what is the output on your screen of this command:

sort foo foo | tail -n 4 | head -n 1

a. 96

b. 96 96

c. 98

d. 04 04

e. 01 01

46. The basic purpose of a shell is:

a. to format hard drives

b. to find and run commands

c. to program system administration backup procedures

d. to search for strings inside text files

e. to expand pathnames

47. To make the **bash** shell complete commands or file names, you type the first part of the command or file name and then press this key:

a. [CTRL]-[D]

b. [ALT]

c. [TAB]

d. [ALT]-[F1]

e. [CTRL]-[C]

48. In an empty directory, how many arguments are passed to the wc command in this command line: touch xx yy >zz 123 .a b.; wc ??

a. 5

b. 0

c. 1

d. 2

e. 4

49. If I am in directory /home/me and mt is an empty sub-directory, what is true after this command line:

touch ./mt/foo; mv mt/./foo mt/../../me/./y

a. the directory **mt** now contains only a file named **v**

b. the directory **mt** is still empty

c. there is a second copy of the file **foo** in the file named **y**

d. the command fails because the path mt/./foo does not exist

e. the command fails because the path mt/../../me does not exist

50. If file /a contains 3 lines, and file /b contains 5 lines, then how many lines are in file /c after this command line:

cat /a /b >/c : sort /c >/c : sort /c /a /b >/c

a. 16

b. 5

c. 0

d. 8

e. 3

51. Which of these statements is true?

a. Unix commands must be entered in lower-case letters.

b. Unix commands can be entered in upper-case or lower-case letters; they are equivalent.

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c. To indicate End-of-File (no more input), type [CTRL]-[C].

d. To erase an entire line of typing, type [CTRL]-[D].

e. To delete a word from the shell command line, type [CTRL]-[D]

52. What is the output of this command line in an empty directory:

touch x .a .ab .cde .fghi ; echo .??*

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

b. .cde .fqhi

c. .ab .cde .fghi

d. .??*

e. . . . a .ab .cde .fghi

53. What command can you use to delete an empty directory?

a. rmdir

b. deldir

c. delete

d. erase

e. mvdir

54. What is the result of this exact command line: cat /foo bar

a. the two text strings **/foo** and **bar** will be displayed

b. the contents of the files /foo and bar will be displayed

c. the names of the pathnames **/foo** and **bar** will be displayed

d. file /foo will be copied to bar

e. all the files under directory /foo with the name bar will be displayed

55. In an empty directory, how many lines are in file **foo** after this command line:

ls nosuchfile . .. 2>foo

a. 4

b. 0

c. 2

d. 1

e. 3

e. 8 8

56. If my current directory is **/bin**, which of these pathnames is equivalent to the file name /bin/ls?

a. ./bin/ls

b. ../../bin/ls

c. ../bin/ls/.

d. /root/bin/ls

e. 1s/.

57. If file **foo** 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 command:

sort foo foo | tail -n 2 | head -n 1

a. 2 2

b. 8

c. 9

d. 1

58. If /etc/shadow is a file name, which pathname always leads to the same file?

a. /etc/../../shadow

b. /etc/shadow/./.

c. /etc/shadow/../..

d. /./../etc/./shadow

e. ././etc/shadow

59.	If cow is a	sub-d	lirectory	that	contains	only th	ne file dog ,	what happens	after	this
	command:	mv	cow/do	oα	cow/./	./cat	:			

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- a. the command fails because the name **cow/././cat** does not exist
- b. there is a second copy of the file dog in the file named cat
- c. the directory **cow** is now empty
- d. the directory cow now contains only a file named cat
- e. the command fails because the name cat does not exist
- 60. If my current directory is /etc, which of these pathnames is equivalent to the pathname /etc/x/y?

a. ../etc/y

b. ./etc/x/y

c. /x/y

d. ../etc/x/y

e. ../x/y

61. What is the output of this command line in an empty directory:

touch 1 .1 23 .23 456; echo [12]*

- *a*. 1 23
- b. 1 .1 23 .23
- c. an error message from **echo** saying [ab] * does not exist
- d. 1 .1 23 .23 456
- e. [12]*
- 62. How do you search for the word **nongraphic** in the man page for **ls**?
 - a. type man ls -nongraphic at the shell
 - b. type man 1s at the shell, then 'F (CTRL-F), then nongraphic
 - c. type man ls at the shell, then /nongraphic
 - d. type man -k nongraphic at the shell
 - e. type man nongraphic | grep ls at the shell
- 63. In an empty directory, how many words are in file **out** after this command line: **touch a**; **ls** >out

a. 0

b. 1

c. 4

d. 3

e. 2

e. 1

- 64. The output of the **tree** command is:
 - a. the tree of files under the ROOT directory
 - *b.* the tree of files under your HOME directory
 - c. a recursive list of users logged in to the system
 - d. the tree of users logged in to the system
 - e. an indented, recursive list of directories and their contents
- 65. In an empty directory, what is the output on your screen after this command line:

echo hi >a ; ls >wc -l

a. 2

b. 1

c. no output

d. **a**

e. 0

66. How many lines are in the file bar after this command line:

echo hi >x ; echo ho >>x ; cat x >bar

a. 0

b. 4

c. 6

d. 2

67. How many lines are in the file **bar** after this command line:

echo hi >x ; echo ho >>x ; cat x x >bar

a. 2

b. **1**

c. 6

d. 0

e. **4**

- 68. If I am in directory /home/me and mt is an empty sub-directory, what is true after this command line: touch ./foo; mv mt/../foo mt/../bar
 - a. the command fails because the path mt/../foo does not exist
 - b. the directory . . /me now contains a file named bar
 - c. there is a second copy of the file **foo** in the file named **bar**
 - d. the command fails because the path mt/../bar does not exist
 - e. the directory mt now contains only a file named bar
- 69. How many lines are in the file **out** after this command line:

date >f ; ls f >>f ; cat f f >out

a. 0

b. 2

c. 6

d. 4

e. 1

70. What is the output of this command line in an empty directory: **echo** *

a. . ..

b. *

c. .

d. no output

e. an error message from **echo** saying * does not exist

71. If you type the command **cat**, which *CTRL* key will send an **EOF** and take you back to the command prompt?

a. ^U

b. ^**R**

c. ^E

d. ^C

e. ^D

72. In a directory containing one file named **dog**, what is the output on your screen after this command line: 1>/dev/null 1s *

a. bash: 1>/dev/null: command not found

b. *

c. dog

d. ls: *: No such file or directory

e. no output

73. Which of the command lines below can generate a non-empty file?

a. grep 'foo' foo >foo

b. cat foo >foo
d. ls foo >foo

c. tail foo >foo
e. sort foo >foo

74. In a manual page **SYNOPSIS** section, square brackets ([]) mean:

a. something that is optional

b. an arithmetic expression

c. no special meaning

d. something that is repeated

e. a GLOB pattern matching a list

75. If my current directory is **/lib**, which of these pathnames is equivalent to the pathname **/lib/x/y**?

a. ../lib/y

b. ./lib/x/y

c. ../lib/x/y

76. What is the output of this command line in an empty directory: touch 1 2 3 .a .b .c ; echo .??* a. an error message from echo saving .??* does not exist b. . .. 1 2 3 .a .b .c c.a .b .c

d. .a .b .c

e. .??*

77. What is the output of this command line in an empty directory:

touch .a .b .c; echo .* a. a .b .c

h. .a .b .c

c. no output

d. .*

e. an error message from echo saying .* does not exist

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

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a. ../passwd c. ./passwd

b. ./etc/passwd d. ../etc/passwd/.

e. /passwd

79. What is the output on your screen after these command lines:

echo 1 > x; cp x y; echo 2 >> ysort x >y ; cat y

a. 1

b. 1 followed by 2

c. no output

d. 2 e. 2 followed by 1

80. How can you ask the **bash** (Linux) shell to complete commands or file names for

a. Type the first part of the command or file name and press the [CTRL] - [D] key.

b. Type the first part of the command or file name and press the **[TAB]** key.

c. Type the first part of the command or file name and press the [ALT] key.

d. Type the first part of the command or file name and press the [CTRL]-[C]

e. Type the first part of the command or file name and press the [ALT] - [F1]

81. In a directory that contains only the file **foo**, what happens after this command: cp foo bar

a. the command fails because **bar** is not a directory

b. the command fails because the name **bar** does not exist

c. an empty file named **bar** is created

d. there is only the file named **bar** in the directory now

e. there is a copy of the file named **foo** in the file named **bar**

82. In an empty directory, what is the output on your screen of this command line: echo hi >foo >bar ; cat foo

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a. hi >foo

b. hi

c. no output

d. cat: foo: No such file or directory

e. hi >foo >bar

83. If file /a contains 20 lines, and file /b contains 30 lines, then how many lines are in file /c after this command line:

sort /a /b >/c; cat /a >>/b; sort /c /b /a >/c a. 70 b. 80 c. 120 d. 50 e. 0

84. How many arguments does the shell pass to this **echo** command:

echo one two three >four five

h 2 *a*. 3

c 4

e. 6

d. 5

d. 2

85. If I am in directory **/home/me** and **mt** is an empty sub-directory, what is true after this command line: touch foo; mv ./mt/../foo ../me/bar

a. the directory **mt** now contains only a file named **bar**

b. the command fails because the path ./mt/../foo does not exist

c. the command fails because the path ../me/bar does not exist

d. the parent directory of mt now contains a file named bar

e. there is a second copy of the file **foo** in the file named **bar**

86. In an empty directory, how many words are in file **out** after this command line:

echo hi >a ; ls >out

a. 3

b. 4

c. 1

e. 0

87. If **foo** is a sub-directory that contains only the file **bar**, what happens after this command: mv foo/bar foo/moo

a. an empty file named **moo** is created

b. there is a second copy of the file bar in the file named moo

c. there is only the file named **moo** in the directory now

d. the command fails because the name **moo** does not exist

e. the command fails because **bar** is not a directory

88. Given the pathname **a/b/c**, the *basename* of this pathname is:

a. b/c

b. a/b

c. **b**

e. a

89. If file **twenty** contains twenty lines, and file **thirty** contains thirty lines, then how many lines are output on your screen by this command line:

tail thirty | cat twenty

a. 0

b. 30

c. 20

d. 50

d. c

e. 21

90.	If my current directory is /home , and my HOME directory is /home/me , which command copies the password file into my HOME directory under the name foo ?	97. In which section of the manual do you find super-user and admin commands? a. 4 b. 3 c. 8 d. 1 e. 2				
	<pre>a. cp/home/me//etc/passwd ./me/./foo b. cp/etc/passwd/me/foo c. cp ./me//etc/passwd/home/me/foo d. cp//etc/passwd /me/foo e. cp me///etc/passwd me/foo</pre>	98. If file /a contains 40 lines, and file /b contains 60 lines, then how many lines are output on your screen by this command line: sort /a /b cat /a cat /b a. 60 b. 40 c. 100 d. 160 e. 200				
91.	What is the output on your screen of this command line: echo bat >pig; echo one tail pig a. one b. one followed by bat c. bat followed by one d. an error message e. bat	99. What is the result of this exact command line: echo /foo bar a. the contents of the files /foo and bar will be displayed b. all the files under directory /foo with the name bar will be displayed c. file /foo will be copied to bar d. the two text strings /foo and bar will be displayed e. the names of the pathnames /foo and bar will be displayed				
92.	If foo is a sub-directory that contains only the file bar, what happens after this command: mv ./foo/bar foo//me a. the directory foo now contains only a file named me b. the directory foo is now empty c. there is a second copy of the file bar in the file named me d. the command fails because the name ./foo/bar does not exist e. the command fails because the name me does not exist	 a. Command apropos is an exact synonym for command man. b. To erase an entire line of typing, type [ALT] - [DELETE]. c. To interrupt a Unix process from the keyboard, type [CTRL] - [D]. d. The file command creates a new, empty file in the current directory e. To indicate End-of-File (no more input) to a program, type [CTRL] - [D]. 				
93. In a directory that contains only the file foo , what happens after this command: mv foo bar a. an empty file named bar is created b. the command fails because bar is not a directory c. there is only the file named bar in the directory now d. the command fails because the name bar does not exist		 101. How many arguments and options are there to the command: wc -wc wc a. Two command line arguments, one of which contains two bundled options. b. Two command name arguments and two bundled options. c. Two options, no arguments. d. Two arguments, one of which is a single option and the other is a pathname. e. Two arguments, no options. 				
94.	e. there is a copy of the file named foo in the file named bar If /bin/bash is a file name, which pathname always leads to the same file? a. /./bin/./bash b/bin/bash c. /bin/bin//bash d. /bin//bash e. /bin/bash/.	102. If /etc/passwd is a file name, which pathname always leads to the same file? a. /etc/passwd/. b. /etc//passwd c/etc/passwd d. /./etc/./passwd e. /etc/etc//passwd 103. The shell expands a leading tilde (~) in a pathname (e.g. ~/foo) to be:				
95.	In an empty directory, how many arguments are passed to the wc command in this command line: date >o1; touch a1 b2 out >o1; wc o* a. 3 b. 2 c. 1 d. 4 e. 5	 a. the current directory b. the ROOT directory c. the directory / root d. the parent directory e. your HOME directory 				
96.	If directory cow contains only these four three-character file names: .AA, .A1, .BB, .B., then what is the output on your screen of this command line: echo cow/* a. cow/.B. b. cow/.AA cow/.A1 cow/.BB cow/.B. c. cow/*	104. If file foo 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 command: cat foo foo sort tail -n 4 head -n 1 a. 6 b. no output c. 1 d. 8 105. Which CTRL key will erase a full line of typing in a terminal window?				
	d cow/ AA cow/ A1 cow/ BR	a . ^D b . ^R c . ^C d . ^I e . ^U				

1 Minute Per Question

d. cow/.AA cow/.A1 cow/.BB

e. no output

a. 2

b. 15 directory names

a. echo *[me]*

c. echo * (M, m, E, e) *

e. echo ?[MmEe]?

d. an error message because */. does not exist

touch pig pig ; ls >pig h. 4

c. */.

a. 3

e. no output

1 Minute Per Question

c. 2 followed by 3

106. If file a contains 2 lines, and file b contains 3 lines, then how many lines are output

b. 3

on your screen by this: cp b a | head

229 M/C Questions	-16-	1 Minute Per Question
114. In an empty directory, what is touch a b .1 .2 a a b .1 .2 b1 .2 c. an error message from ec d??* e. a b	; echo .??*	
115. What is the output on your so echo hi >hi; he a. 0 0 0 hi d. no output		
116. If file a contains 2 lines, and on your screen by this comm.a. 2d. 3	and line: cat b	
117. If file foo contains 9 lines, 6 the file (1 through 9), what is cat foo foo ca a. 8 b. 6	s the output on your s	creen of this command: head -n 1
118. If my current directory is /hc pathname /home/a/b/c? a/home/b/c c/a/b/c e/home/a/b/c	b. /a	•
110 00	1 ' 1 1 ' '	

d. **3** followed by **2** e. no output 107. Which command line displays only the names in the current directory that are exactly three digits long (and no other names)? a. echo [3][3][3] b. echo [?][?][?] c. echo ??? d. echo [0-9][0-9][0-9] e. echo [1-3][1-3][1-3] 108. In an empty directory, what is the output on your screen after this command line: ls out 2>/dev/null a. ls: out 2>/dev/null: No such file or directory b. ls: /dev/null: No such file or directory c. ls: out: No such file or directory d. no output e. out 109. In an empty directory, what happens after this command line: touch a b c; mv a b c a. an error message: mv: target 'c' is not a directory b. the files a, b, and c are moved to the directory c c. the files **a** and **b** are appended to the file **c** d. the files **a**, **b**, and **c** are moved to the current directory e. the files **a** and **b** are moved into the directory **c** 110. If file ten contains ten lines, and file twenty contains twenty lines, then how many lines are output on your screen by this command line: cat twenty | sort ten h. 20 c. 10 d. 60 a. 30 e. 0 111. If the current directory contains 10 visible files and 15 visible sub-directories, what is the output on your screen of this command: ls -d */. a. 25 pathnames

```
115. What is the output on your screen of this command li
         echo hi >hi ; head hi >hi ; wc h
    a 0 0 0 hi
                              b. 2 2 4 hi
    d. no output
                              e. 1 1 3 hi
116. If file a contains 2 lines, and file b contains 3 lines.
    on your screen by this command line: cat b | s
    a. 2
                              b. 2 followed by 3
    d. 3
                              e. 5
117. If file foo contains 9 lines, each of which is the one-
    the file (1 through 9), what is the output on your scr
         cat foo foo | cat | tail -n 4 |
    a. 8
                    b. 6
                                   c. 9
118. If my current directory is /home, which of these pat
    pathname /home/a/b/c?
    a. ../home/b/c
                                           b. /a/
    c. ../a/b/c
                                           d. ./h
    e.../home/a/b/c
119. The option to ls that shows hidden names is:
    a. -1
                    b. -1
                                   c. -i
                                                   d. -h
120. If my current directory is /etc, which of these pathnames is equivalent to the file
    name /etc/passwd?
    a. ./etc/passwd
                                           b. ../passwd
    c. passwd
                                            d. ../etc/passwd/.
    e. /passwd
121. To leave a shell and let the terminal window close, type:
    a. quit
                              b. exit
                                                        c. q
    d. [CTRL-C]
                              e. bye
122. The option to ls that shows which names are directories is:
    a. -d
                    b. -1
                                                   d. -a
                                   c. -1
                                                                   e. -i
123. What is the Unix user name for the Super-User account?
    a. master
                                           b. administrator
    c. superuser
                                           d. alterego
    e. root
```

112. Which command line displays only the non-hidden names in the current directory

113. In an empty directory, how many words are in file **pig** after this command line:

c. 1

b. echo *[Mm][Ee]*

d. echo *[MmEe]*

d. 2

e. 0

that contain the case-insensitive word **me** (and no other names)?

124. If file **foo** contains 99 lines, each of which is the two-digit line number of the line in the file (01 through 99), what is the output on your screen of this command:

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sort -r foo foo | tail -n 4 | head -n 1

a. 96 b. 02 c. 98

d. 96 96

e. 04 04

125. If /etc/passwd is a file name, which pathname always leads to the same file?

- a. /etc/../../passwd
- b. /./../etc/./passwd
- c. /etc/passwd/./.
- d. /etc/passwd/../..

d. 1

e. ././etc/passwd

126. In an empty directory, how many arguments are passed to the cat command in this command line: touch a1 a2 ac ba .a; cat a*

- *a*. 3
- b. none
- c. 4

e. 2

127. If I am in my HOME directory named /home/me and x is an empty subdirectory, what is true after this command line:

touch ./x/fil ; mv x/./fil x/../../me/./y

- a. there is a second copy of the file **fil** in the file named **y**
- b. the directory \mathbf{x} now contains only a file named \mathbf{y}
- c. the directory \mathbf{x} is still empty
- d. the command fails because the path x/./fil does not exist
- e. the command fails because the path $\mathbf{x}/.../.../me$ does not exist

128. If directory dir contains only these four three-character file names: .on, .tw, .th, .f., then what is the output on your screen of this command line: echo dir/*

- a. dir/.on dir/.tw dir/.th
- b. dir/. dir/.. dir/.on dir/.tw dir/.th dir/.f.
- c. no output
- d. dir/*
- e. dir/.f.

129. If ian is a sub-directory that contains only the file foo, what happens after this command: mv ./ian/./foo ./ian/../bar

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

130. If file /a contains 3 lines, and file /b contains 5 lines, then how many lines are output on your screen by this command line: cat /a | sort /b

- a. 8
- b. 0
- c. 5
- d. 3
- e. 2

- 131. What is true about this command line: date >ls; ls -ls ls >wc
 - a. The wc command counts the output of the 1s command.
 - b. The **1s** command is executed more than once.
 - c. The **1s** command receives the output of **date** on standard input.
 - d. The shell finds and executes three different commands.
 - e. The file wc has one line in it.
- 132. What is the output on your screen after this command line:

mkdir dir ; touch dir/.aa dir/.bb ; echo dir/*

- a. dir/.aa dir/.bb
- b. no output
- c. dir/*
- d. dir/
- e. dir/. dir/.. dir/.aa dir/.bb

133. What is in file **foo** after this command line: **echo 1 2 >foo 3**

- a. echo 1 2
- c. 1 2 3
- *d.* nothing (empty file)
- e. 1 2

134. In a manual page **SYNOPSIS** section, ellipsis (three dots) (...) mean:

a. a hidden directory

b. no special meaning

b. 3

- c. something that is optional
- d. the parent directory
- e. something that is repeated

135. If pig is a sub-directory that contains only the file dog, what happens after this command: mv pig/dog pig/././cat

- a. the command fails because the name cat does not exist
- b. the directory pig now contains only a file named cat
- c. the command fails because the name pig/././cat does not exist
- d. the directory **pig** is now empty
- e. there is a second copy of the file named dog in the file named cat
- 136. The shell meta-character used to separate multiple separate commands on the same line of typing is:
 - a.:
- b. +
- c. ,
- d. a e. ;

137. What is the output of this command line in an empty directory:

touch .1 .2 .3 4 5 6; echo .*

- a. .*
- b. 4 5 6

d. an error message from **echo** saying .* does not exist

- e. .1 .2 .3 4 5 6
- 138. In an empty directory, how many arguments are passed to the cat command in this command line: date >a1 ; touch a2 ba ca ; cat a*
 - *a*. 3
- b. 1
- c. none
- d. 4
- e. 2

d. 0

d 8

d. 40

d. 2

d. date 2>&1 >out

e. 3

e. 6

e. 55

e. 3

```
139. If my current working directory is /home, and my HOME directory is
                                                                                  147. How many lines are in the file out after this command line:
     /home/me, which command copies the password file into my HOME directory
                                                                                           echo hi >x ; echo ho >>x ; cat x x x >out
    under the name foo?
                                                                                                      b. 6
                                                                                      a. 1
                                                                                                                    c. 2
    a. cp ../etc/passwd ../me/foo
                                                                                  148. In a directory containing one file named dog, what is the output on your screen
    b. cp ../home/me/../etc/passwd ./me/./foo
                                                                                      after this command line: 2>/dev/null ls nosuchfile
    c. cp ../../etc/passwd /me/foo
                                                                                      a. ls: nosuchfile: No such file or directory
    d. cp ../etc/passwd ./me/foo
                                                                                      b. bash: 2>/dev/null: command not found
    e. cp ./me/../etc/passwd ../home/me/foo
                                                                                      c. nosuchfile
140. In an empty directory, what is the output on your screen after this command line:
                                                                                      d. no output
         echo hi >a ; sort * 1>/dev/null
                                                                                      e. dog
    a. hi
                                                                                  149. If file foo contains 9 lines, each of which is the one-digit line number of the line in
    h. a
                                                                                      the file (1 through 9), what is the output on your screen of this command:
    c. no output
                                                                                           sort foo foo | tail -n 4 | head -n 1
    d. sort: 1>/dev/null: No such file or directory
                                                                                                      b 6 6
                                                                                                                    c 4 4
                                                                                      a. 1 1
    e. sort: *: No such file or directory
                                                                                  150. If file x contains ten lines, and file y contains twenty lines, then how many lines
141. If I am in directory /home/me and mt is an empty sub-directory, what is true
                                                                                      are in file cat after this command line:
    after this command line: touch foo; mkdir bar; my foo bar/mt
                                                                                           sort x y >z ; tail -n 5 x >x ; sort x y z >cat
    a. the directory mt now contains a file named foo
                                                                                                     b. 0
                                                                                      a. 60
                                                                                                                    c. 50
    b. the directory mt now contains a directory named bar
                                                                                  151. If I am in directory /home/me and mt is an empty sub-directory, what is true
    c. the command fails because bar/mt is not a directory
                                                                                      after this command line:
    d. the directory bar now contains a file named foo
                                                                                           touch ./foo bar ; rm mt/../foo ../me/bar
    e. the directory mt is still empty
                                                                                      a. the command fails because the path ../me/bar does not exist
142. What is the output of this command line in an empty directory:
                                                                                      b. the directory mt is still empty
         touch .a .b .c ; echo [.]*
                                                                                      c. the directory me now contains a file named bar
    a. [.]*
                                                                                      d. the command fails because the path mt/../foo does not exist
    b. . .. .a .b .c
                                                                                      e. the directory mt now contains a file named foo
    c. an error message from echo saying [.] * does not exist
                                                                                  152. In an empty directory, how many lines are in file out after this command line:
    d. no output
                                                                                           ls . .. nosuchfile 2>out
    e. .a .b .c
                                                                                      a. 4
                                                                                                     b. 0
                                                                                                                    c. 1
143. Which of these characters is not a shell GLOB meta-character?
                                                                                  153. If my current working directory is /home, and my HOME directory is
    a. ?
                                   c. #
                                                  d. 1
                                                                 e. [
                                                                                      /home/foo, which command copies file /bin/ls into my HOME directory
144. What command displays the sizes of files in the current directory?
                                                                                      under the name xx?
    a. cat -s
                             b. ls -1
                                                       c. ls -p
                                                                                      a. cp ./../bin/ls ../foo/xx
                                                                                      b. cp ././foo/../bin/ls ../home/foo/xx
    d. ps -1
                             e. ps -s
                                                                                      c. cp ../home/./foo/../bin/ls foo/xx
145. What is the output of this successful command sequence?
                                                                                      d. cp ./foo/../../bin/ls ./foo/./xx
         cd /home/dir : mkdir one : mkdir two : pwd
                                                                                      e. cp ../../bin/./ls /foo/xx
    a. /home/dir/one
                                          b. /two
    c. /home/dir/two
                                          d. /home/dir/one/two
                                                                                  154. What is the correct syntax to redirect both standard output and standard error into
    e. /home/dir
                                                                                      the same output file?
                                                                                      a. date 2>1 >out
                                                                                                                            b. date >out 2>&1
146. Give the minimum number of directories in this pathname: /a/b/c/d
```

e. 3

c. 1

b. 4

a. 5

d. 2

c. date 1>out 2>1

e. date 1>out 2>out

```
163. What happens when you try to change to the parent directory of ROOT, e.g.
155. In an empty directory, what is the output on your screen after this command line:
         touch 1 2 .a .b ; echo .*
                                                                                              cd / ; cd ..
                                                                                          a. the shell current directory is still ROOT; no change
    a. an error message from echo saying .* does not exist
    b. 1 2
                                                                                          b. the shell issues a warning, but changes to the parent
                                                                                         c. you go to the parent directory containing your C: drive
    c. . .. .a .b
    d. .a .b
                                                                                          d. the shell issues an error message and does not change
     e. .*
                                                                                          e. the shell asks you to retype this invalid directory
                                                                                     164. Which command line displays the contents of the Unix passwd file one page at a
156. In an empty directory, how many arguments are passed to the rm command in this
    command line: touch a a1 a2 ba ca : rm a*
                                                                                          time?
                                                                                                                                 b. cat less | /etc/passwd
                    h. 4
                                    c. none
                                                    d. 2
    a. 3
                                                                    e. 1
                                                                                          a. cat /etc/passwd less
                                                                                         c. /etc/passwd cat less
                                                                                                                                 d. /etc/passwd | less
157. If my current directory is /etc, which of these pathnames is equivalent to the file
                                                                                          e. less /etc/passwd
    name /etc/passwd?
    a. passwd/.
                                            b. ../etc/passwd/.
                                                                                     165. If foo is a sub-directory that contains only the file bar, what happens after this
                                                                                          command: cp foo/bar ./foo/../me
    c. ./../etc/./passwd
                                            d. /root/etc/passwd
    e. ./etc/passwd
                                                                                          a. the command fails because the name foo/bar does not exist
                                                                                          b. there is a second copy of the file bar in the file named me
158. In which section of the manual do you find standard commands?
                                                                                          c. the directory foo now contains only a file named me
    a. 3
                    b. 8
                                    c. 1
                                                    d. 2.
                                                                    e. 4
                                                                                          d. there is a second copy of the file bar in directory foo
159. If /etc/passwd is a file name, which pathname always leads to the same file?
                                                                                          e. the directory foo is now empty
    a. /etc/passwd/.
                                            b. ./etc/passwd
                                                                                     166. What is the absolute pathname of the Unix/Linux password (account) file?
    c. /../etc/./passwd
                                            d. /etc/../../passwd
                                                                                                                    b. /etc/passwd
                                                                                                                                              c. /var/passwd
                                                                                         a. /lib/passwd
    e. /etc/passwd/../..
                                                                                         d. /bin/passwd
                                                                                                                    e. /usr/passwd
160. What is the output of this command line in an empty directory:
                                                                                     167. If I am in my HOME directory named /home/myhome and sub is an empty sub-
         touch 1 2 3 .a .ab .abc ; echo [.]*
                                                                                          directory, what is true after this command line:
    a. [.1*
                                                                                              touch ./fil ; mv sub/../fil ../myhome/cat
    b. .a .ab .abc
                                                                                          a. the directory sub now contains only a file named cat
    c. an error message from echo saying [.] * does not exist
                                                                                          b. the directory sub/.. now has a file named cat in it
    d. . . . a .ab .abc
                                                                                          c. the command fails because the path . ./myhome/cat does not exist
    e. no output
                                                                                          d. the command fails because the path sub/../fil does not exist
161. Which of these pathnames is not an absolute pathname (after all shell expansions)?
                                                                                          e. there is a second copy of the file fil in the file named cat
    a. ~/foo
                               b. /foo
                                                         c. SHOME/foo
                                                                                     168. In an empty directory, how many words are in file out after this command line:
    d. foo
                               e. /../foo
                                                                                              touch 1 2 3 2 1; 1s >out
162. If I am in my HOME directory named /home/me and sub is an empty sub-
                                                                                          a. 4
                                                                                                         b. 5
                                                                                                                                         d. 0
                                                                                                                                                         e. 6
                                                                                                                         c. 3
    directory, what is true after this command line:
                                                                                     169. Given an existing file of yours named cat, what is the output on your screen of
         touch ./fil; mv sub/../fil ../me/cat
                                                                                          this command line: echo xx >cat ; head cat >cat ; wc cat
    a. the command fails because the path sub/../fil does not exist
                                                                                                                    b. 1 1 3 cat
                                                                                                                                              c. 2 2 4 cat
                                                                                         a. no output
    b. there is a second copy of the file fil in the file named cat
                                                                                         d. 0 0 0 cat
                                                                                                                    e. 1 1 2 cat
    c. the command fails because the path ../me/cat does not exist
                                                                                     170. What is in the file bar after this command line:
    d. the directory sub now contains only a file named cat
                                                                                              echo hi >x ; echo ho >x ; mv x y >bar
    e. the directory sub/.. now has a file named cat in it
                                                                                         a. hi followed by ho
                                                                                                                                 b. ho
                                                                                          c. no such file (nonexistent)
                                                                                                                                 d hi
                                                                                          e. nothing (empty file)
```

1 Minute Per Question

71. Which pathname almost always leads to the same file named: /etc/passwd a. /./etc/./passwd b. /etc/passwd/. c. /etc//passwd d/etc/passwd	179. 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 command: sort nine nine tail -n 3 head -n 1
 e. /etc/etc//passwd 172. In an empty directory, what happens after this command line: mkdir a b c ; mv a b c a. an error message: mv: target 'c' is not a directory b. the directories a, b, and c are moved to the current directory c. the directories a and b are appended to the directory c d. the directories a, b, and c are moved to the directory c e. the directories a and b are moved into the directory c 	a. 8 8 b. 8 c. 2 2 d. 1 e. 9 180. What would you type to find the string tony in the file /etc/passwd? a. grep tony /etc/passwd b. cat tony /etc/passwd c. find /etc/passwd -user tony -print d. grep /etc/passwd tony e. find /etc/passwd -name tony -print 181. What is the output on your screen of this command line:
173. Which command line displays only the non-hidden names in the current directory that contain the letter a (and no other names)? a. echo ?a? b. echo *a* c. echo [a] d. echo a* e. echo *a	
 Which of these command line will make file foo contain all of the content of file a followed by all of the content of file b? a. cp a b > foo b. cat a > foo; cat b >> foo c. mv a b > foo d. cp a > foo; cp b >> foo e. echo a b > foo 	on your screen by this command line: cat a cat b a. 0
175. In an empty directory, how many arguments are passed to the cat command in the command line: touch al a2 ba ca; cat a* a. 1 b. 3 c. 2 d. none e. 4	 a??* b12 .345 .6789 c. an error message from echo saying .??* does not exist d12 .345 .6789
a. an error message c. pig e. cow	 e. no output 184. What is the output on your screen of this command line: echo wc >wc; wc wc >wc; cat wc a. 1 1 2 wc b. 1 1 3 wc c. no output d. 0 0 0 wc e. wc
77. Which of these commands always returns you to your account HOME directory? a. cd home b. cd /home c. cd d. cd /home/ e. cd	185. If file foo 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 command: cat foo foo sort -r head -n 4 tail -n 1
178. If I am in my HOME directory named /home/me and dir is an empty subdirectory, what is true after this command line: touch new; mv ./dir//new/me/old a. the command fails because the path/me/old does not exist b. the parent directory of dir now has a file named old in it c. the directory dir now contains only a file named old d. the command fails because the path ./dir//new does not exist	 a. 8 b. 5 c. 7 d. 6 e. 9 186. The output of the find command is: a. a recursive list of users logged in to the system b. a recursive list of pathnames c. finds patterns in a file corresponding to lines d. finds lines in a file matching a pattern e. account names matching a pattern

e. there is a second copy of the file named **new** in the file named **old**

e. 1

187. If file a contains 2 lines, and file b contains 3 lines, then how many lines are in file c after this command line:

cat a a >c ; head b >>a ; cat c b >c a a. 10 b. 8 c. 12 *d*. 0 e. 7

188. Which pathname almost always leads to the same file named: /etc/passwd?

a. /etc/../etc/./passwd b. ../etc/passwd c. ./etc/passwd d. /etc/passwd/.

e. /etc/./etc/../passwd

189. If my current directory is /home, and my HOME directory is /home/me, which command copies the password file into my HOME directory under the name **foo**?

a. cp ../../etc/passwd /me/foo b. cp ../etc/passwd ../me/foo

c. cp ./me/../etc/passwd ../home/me/foo

d. cp ../etc/passwd ./me/foo

e. cp ../home/me/../etc/passwd ./me/./foo

190. In an empty directory, what is the output on your screen after this command line: ls nosuchfile 2>out

a. 2 not found b. no output

d. nosuchfile not found c. nosuchfile 2 not found

e. nosuchfile

191. In an empty directory, how many words are in file **foo** after this command line:

date >.bar >.out ; ls >foo

a. 0 b. 3 c. 4 d. 2

192. If file /a contains 7 lines, and file /b contains 5 lines, then how many lines are in file /c after this command line:

cat /a /b >/c; sort /c >/c; sort /c /a /b >/c *b*. 0 d. 7 a. 24 c. 12 e. 5

193. Which Unix command line deletes a directory and everything inside it?

a. rm -r dir

b. rm -all dir

c. rmdir -r dir d. rmdir -all dir

e. deltree -all dir

194. If my current working directory is **/var**, which command copies the password file into directory /var/ian under the name bar?

a. cp ./../etc/passwd ../ian/bar

b. cp ././ian/../etc/passwd ../var/ian/bar

c. cp ./ian/../../etc/passwd ian/bar

d. cp ../../etc/./passwd /ian/bar

e. cp ../var/./ian/../etc/passwd ./ian/./bar

195. How many lines are in file **out** after this command line:

date >wc >cat >out

a. 2 b. 1 6 29 c. 0 d. 0 0 0 e. 1

196. What would you see if you typed this command: cat /foo

a. The contents of the file **foo** located in your HOME directory

b. The contents of the file **foo** located in the ROOT directory

c. The contents of the file **foo** located in the parent directory

d. The contents of your subdirectory named **foo**

e. The contents of your directory named **foo**

197. If file a contains 20 lines, and file b contains 30 lines, then how many lines are in file **out** after this command line:

cat a b >c ; head c >c ; sort a b c >out b. 100 c. 60 d. 30 a. 0 e. 50

198. Which pathname almost always leads to the same file named: /bin/ls

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

b. /./bin/./ls

c. /bin/../ls

d. ./bin/ls

e. /./bin/./ls/.

199. Which command line lists all possible utilities available for compiling programs?

a. man compile

b. grep 'compile' /etc/

d. locate compile

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c. man -k compile

e. find compile 200. What is the output on your screen after this command line:

echo hi >a ; ls a > wc

a. 1 1 2

b. 3

c. 2

d. 1 1 3

e. no output

201. What is the output of this command line in an empty directory:

touch .a .b .c ; echo .??*

a. .??*

b. no output

c. .a .b .c

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

e.a .b .c

202. In an empty directory, how many arguments are passed to the **rm** command in this command line: date >a1 ; touch a2 ba ca >all ; rm a*

a. 3

b. 4

c. 1

d. none e. 2

203. If directory dir contains these four three-character file names: .aa, .ab, .a?, .a*, then what is the output on your screen of this command line:

echo dir/???

a. dir/.a?

b. dir/.aa dir/.ab dir/.a? dir/.a*

c. no output

d. dir/.aa dir/.ab

e. dir/???

- 204. What is an operating system?
 - a. An accounting package program.
 - b. A word-processing computer program.
 - c. A computer program that manages the hardware.
 - d. A web-browser program.
 - e. A video display card.
- 205. In an empty directory, what is the output on your screen after this command line:

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touch a ; ls >wc -l

a. 2

b. 3

c. 1

d. 0

e. no output

206. If 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. 0

b. 12

c. 5

d. 7

e. 8

- 207. What do you do to erase an entire line of typing in the shell?
 - a. select the line with the mouse and use the **DEL** key
 - b. type [CTRL-W]
 - c. type [CTRL-U]
 - d. type [CTRL-D]
 - e. type [CTRL-C]
- 208. What is your HOME directory?
 - a. The directory that your shell is in now
 - b. The directory named /home
 - c. This is where "root" goes when "root" logs in to the system
 - d. The directory into which you are placed when you first log in
 - e. The top directory of the Unix/Linux/BSD/OSX file system tree
- 209. What is the output of this command line in an empty directory: cat *
 - a. *
 - b. . . .
 - c. .
 - d. no output
 - e. an error message from cat saying * does not exist
- 210. If I am in directory /home/me and mt is an empty sub-directory, what is true after this command line: touch foo; mkdir bar; mv foo mt/bar
 - a. the directory **mt** now contains a file named **bar**
 - b. the directory **mt** is still empty
 - c. the command fails because **mt/bar** is not a directory
 - d. the directory **bar** now contains a file named **foo**
 - e. the directory mt now contains a file named foo

- 211. In an empty directory, what is the output on your screen after this command line:
 - ls 2>/dev/null nosuchfile
 - a. ls: /dev/null: No such file or directory
 - b. no output
 - c. nosuchfile
 - d. ls: nosuchfile: No such file or directory
 - e. ls: 2>/dev/null nosuchfile: No such file or directory
- 212. How many words are in the file **x** after this command line:

echo 1 2 >x; echo 3 >x; echo 4 >>x

a. 1

h. 4

c. 0

d. 3

e. 2

- 213. What does *quoting* mean on a shell command line?
 - a. using a leading tilde ("~") on a pathname to mean your HOME directory
 - b. typing a "control" character using the [CTRL] key
 - c. turning off the special meaning of shell meta-characters
 - d. using more than one pathname argument to a command, e.g. rm a b c
 - e. setting the PS1 variable to be your shell prompt
- 214. Which command line tells you the recursive count of all pathnames under the current directory and all subdirectories?
 - a. find | wc
- b. wc *

C. WC "SPWD"

- d. ls | wc
- e. wc .
- 215. Which command line does *not* show any lines from inside the file **bat**?
 - a. sort bat
- b. head bat

c. less bat

c. x/./y/z

- d. 1s bat
- e. tail bat
- 216. What is the output of this command line in an empty directory:

touch a .a bc .bc def ; echo [ab] *

- a. a bc
- b. no output
- c. [ab]*
- d. a .a bc .bc
- e. an error message from echo saying [ab] * does not exist
- 217. If my current directory is /usr, which of these pathnames is equivalent to the pathname /usr/x/y/z?
 - a. /x/y/z d. ./usr/x/y/z
- b. ../usr/y/z
- e. ../x/y/z
- 218. In the output of **ls** -**a**, the two-character name . . signifies what?
 - a. The parent directory.
 - b. A file or directory with double links.
 - c. It begins every name that is hidden.
 - d. The ROOT directory.
 - e. The current directory.

219. Which command line shows the file in **/bin** with the largest checksum?

```
a. cat /bin | sum | sort -nr | head -n 1
```

- b. sum /bin/* | sort -nr | head -n 1
- c. ls /bin/* | sum | sort -nr | head -n 1
- d. sum /bin | sort -nr | head -n 1
- e. cat /bin/* | sum | sort -nr | head -n 1

220. If file x contains ten lines, and file y contains twenty lines, then how many lines are in file **cat** after this command line:

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```
sort x y >z ; tail -n 5 y >y ; sort x y z >cat
                          c. 0
             b. 40
                                       d. 45
a. 60
                                                    e. 50
```

- 221. The purpose of the **PS1** shell variable is:
 - a. to set the shell prompt
 - b. to list your suspended jobs
 - c. to protect your HOME directory from access
 - d. to find patterns inside a text file
 - e. to allow access to the ROOT directory
- 222. How do I search for the string **foo** in the text display output from the **man** command?

```
a. find foo
```

b. search foo

c. /foo

d. Qfoo

- e. select "Search" in the menu
- 223. To change your own account password, use this exact command line:
 - a. \$ passwd cst8207.idallen.ca
 - b. \$ passwd cst8207
 - c. \$ passwd root
 - d. \$ passwd options LOGIN
 - e. \$ passwd
- 224. If my current directory is /lib, which of these pathnames is equivalent to the file name /lib/foo?

```
a. ./lib/foo
```

b. ../lib/foo/.

c. /foo

d. ./foo

e. ../foo

225. In an empty directory, what is the output on your screen after this command line:

```
echo hi >a ; ls nosuchfile 2>/dev/null
```

- a. nosuchfile
- b. ls: nosuchfile: No such file or directory
- d. ls: 2>/dev/null: No such file or directory
- e. no output

226. Which command pipeline outputs the count of the number of manual page titles that contain the keyword "sort"?

```
a. man sort | wc
```

b. wc man sort

c. man -k sort | wc

d. man sort; wc

e. wc -k sort

227. In an empty directory, what is the output on your screen after this command line:

ls 1>/dev/null nosuchfile

- a. ls: 1>/dev/null nosuchfile: No such file or directory
- b. ls: nosuchfile: No such file or directory
- c. nosuchfile
- d. ls: /dev/null: No such file or directory
- e. no output
- 228. If a shell token with a GLOB pattern contains two slashes, how many slashes can be in each matched pathname?

e. exactly two

- a. one or two
- b. zero, one, or two

c. two or more

d. one, two, or more

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

a. Igen (Yes - Hungarian)

b. Sim (Yes - Portuguese)

c. Tak (Yes - Polish)

d. Jes (Yes - Esperanto)

e. Taip (Yes - Lithuanian)