d. ls/.

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PRINT Name:		LAB Section	on:	8.	Which pathname almost always leads a. /etc/shadow/./.		ne file named: /etc/shadow /etc///shadow
Test Version: 371	One-Answer Multiple	Choice 227 Question	s – 10 of 10%		c. /.//etc/./shadow		/etc/shadow//
Read all the words  Use your full, unab  Put the three-digit T  Fill in the bubbles v  Manage your time.	of these instructions and bot breviated name on the mark- Test Version above into both with pencil only, no pen. En Answer questions you know questions below about readin	h sides (back and front) sense form. Do not abbr NO. OF QUESTIONS and er your NAME, Test Ver to first. One Answer per	of all pages. reviate your name. NO. OF STUDENTS rsion, and answers. question.	9.	<ul> <li>e/./etc/shadow</li> <li>What is the Unix user name for the S</li> <li>a. master</li> <li>c. superuser</li> <li>e. alterego</li> <li>If my current directory is /etc, whi</li> </ul>	b. d.	administrator root
1. Did you read all a. Sim (Yes - F c. Igen (Yes -	l the words of the test instructions of the test instruction of the test instr		o)		name /etc/passwd?  a/etc/passwd  c//etc/./passwd  e. passwd/.  What is the output on your screen of	b. d.	/etc/passwd/. /root/etc/passwd
<ul><li>a. My lab room</li><li>b. My lecture ro</li></ul>	Lab Section number is: number, e.g. T303, T230, 1 pom number, e.g. T119				<ul> <li>echo pig &gt;one; echo l</li> <li>a. bat followed by pig</li> <li>c. an error message</li> <li>e. pig followed by bat</li> </ul>	<i>b</i> .	ail one bat pig
<ul><li>d. The timetable</li><li>e. My lecture se</li></ul>	sion number printed in the to e section number of my week ection number, e.g. <b>010</b> or <b>0</b> s 2 lines, and file <b>b</b> contains	ly 2-hour lab period. 20.	inos ara autrut			. <b>1</b>	d. 4 e. 0
	b. 2 followed	b   sort a	mes are output	13.	What is the output of this command l touch .1 .2 .3 4 5 6 a. 4 5 6 b 1 .2 .3		
<ul><li>a. a recursive list</li><li>b. finds patterns</li><li>c. finds lines in</li><li>d. account name</li></ul>	e <b>find</b> command is: st of pathnames s in a file corresponding to lir a file matching a pattern es matching a pattern st of users logged in to the sy			14.	c* d1 .2 .3 4 5 6 e. an error message from echo sayi How can you ask the bash (Linux) you? a. Type the first part of the command	shell to co	mplete commands or file names for
5. Given the pathna <i>a</i> . <b>a/b</b>	ame $a/b/c$ , the basename of $b$ . $b$ . $c$ . $a$	f this pathname is:  d. b/c	<i>e</i> . c		b. Type the first part of the command key.		
6. If file <b>foo</b> conta the file (1 throug cat foo <i>a</i> . 9	ains 9 lines, each of which is gh 9), what is the output on foo   cat   tail -4 b. 6 c. 7	the one-digit line numbe your screen of this comm   head -1 d. 8	er of the line in nand:  e. 5		<ul><li>c. Type the first part of the command key.</li><li>d. Type the first part of the command e. Type the first part of the command key.</li></ul>	d or file na	ame and press the [ALT] key.
	ctory, how many lines are in nosuchfile 2>ou b. 2 c. 0		e. <b>4</b>	15.	If my current directory is /bin, whiname /bin/ls?	ich of these	e pathnames is equivalent to the file $c$ . /root/bin/ls

e. ../../bin/ls

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16. What is in the file **bar** after this command line: 24. If pig is a sub-directory that contains only the file dog, what happens after this echo hi >x ; echo ho >x ; mv x y >bar command: mv pig/dog pig/././cat b. ho a. the command fails because the name cat does not exist a. hi d. no such file (nonexistent) b. the directory pig now contains only a file named cat c. nothing (empty file) c. the directory **pig** is now empty e. hi followed by ho d. the command fails because the name pig/././cat does not exist 17. If file /a contains 20 lines, and file /b contains 30 lines, then how many lines are e. there is a second copy of the file dog in the file named cat in file /c after this command line: sort /a /b >/c ; cat /a >>/b ; sort /c /b /a >/c 25. What is the output of this command line in an empty directory: touch x .a .ab .cde .fghi ; echo .??\* b. 70 c. 50 *d*. 0 e. 80 a. 120 a. .??\* 18. 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: b. . .. .a .ab .cde .fghi sort foo foo | tail -4 | head -1 c. an error message from **echo** saying .??\* does not exist d. .cde .fghi a. 96 b. 01 01 c. 98 e. .ab .cde .fghi d. 96 96 e. 04 04 26. In an empty directory, how many words are in file **cow** after this command line: 19. Which command line does *not* show any lines from inside the file **bat**? touch dog dog cat ; ls >cow a. sort bat b. less bat c. 1s bat *b*. 0 c. 1 d. 2 *a*. 3 e. 4 d. head bat e. tail bat 27. The option to **ls** that shows hidden names is: 20. What command displays the sizes of files in the current directory? a. -1 h. -i c. -1 d. -h e. -a a. ls -1 b. ps -1 c. cat -s 28. If file /a contains 3 lines, and file /b contains 5 lines, then how many lines are in d. ls -p e. ps -s file /c after this command line: 21. In an empty directory, what is the output on your screen after this command line: cat /a /b >/c; sort /c >/c; sort /c /a /b >/c echo hi >a ; ls >wc -l *b*. 0 c. 5 d. 16 e. 3 a. 8 a. **a** b. no output c. 0 29. If file **foo** contains 9 lines, each of which is the one-digit line number of the line in d. 2 e. 1 the file (1 through 9), what is the output on your screen of this command: 22. If I am in directory /home/me and mt is an empty sub-directory, what is true sort foo foo | tail -4 | head -1 after this command line: touch ./foo : mv mt/../foo mt/../bar b. 8 d. 4 4 a. 6 c. 6 6 e. 1 1 a. the directory .../me now contains a file named bar b. the directory mt now contains only a file named bar 30. What can you do to get back (redo) the last command you typed? c. the command fails because the path mt/../bar does not exist a. Type [CTRL]-[ALT]-[UP] b. Type [CTRL]-[BACKSPACE] d. the command fails because the path mt/../foo does not exist c. Type [ALT]-[F2] d. Use the "PageUp" key. e. there is a second copy of the file **foo** in the file named **bar** *e*. Use the "**UpArrow**" key. 23. What is the output on your screen of this command line: 31. What is the output of this command line in an empty directory: cat \* echo pig >one ; echo cow | head -2 one a. no output on screen a. cow b. cow followed by pig b. \* c. an error message d. pig followed by cow c. . . . . e. pig d. . e. an error message from cat saying \* does not exist

1 Minute Per Question

32.	Which command	line shows the	he file in /bii	n with the largest	checksum'
-----	---------------	----------------	-----------------	--------------------	-----------

- a. cat /bin | sum | sort -nr | head -1
- b. sum /bin/\* | sort -nr | head -1
- c. sum /bin | sort -nr | head -1
- d. cat /bin/\* | sum | sort -nr | head -1
- e. ls /bin/\* | sum | sort -nr | head -1
- 33. What do you do to erase an entire line of typing in the shell?
  - a. type [CTRL-D]
  - b. type [CTRL-U]
  - c. type [CTRL-W]
  - d. type [CTRL-C]
  - e. select the line with the mouse and use the **DEL** key
- 34. If file x contains ten lines, and file y contains twenty lines, then how many lines are in file cat after this command line:

	sort	x	У	>z	;	tail	-5	x	>x	;	sort	x	У	z	>cat		
a.	0			b.	55		(	·. (	60		d.	4	10			e.	50

- 35. 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 parent directory
  - c. The contents of the file **foo** located in the ROOT directory
  - d. The contents of your directory named **foo**
  - e. The contents of your subdirectory named **foo**
- 36. 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: out: No such file or directory
  - c. no output
  - d. out
  - e. ls: /dev/null: No such file or directory
- 37. Which of these statements is true?
  - a. Command apropos is an exact synonym for command man.
  - b. The **file** command creates a new, empty file in the current directory
  - c. To indicate End-of-File (no more input) to a program, type [CTRL]-[D].
  - d. To interrupt a Unix process from the keyboard, type [CTRL]-[D].
  - e. To erase an entire line of typing, type [ALT]-[DELETE].
- 38. In the output of the command **ls -a**, the one-character name **.** signifies what?
  - a. A name with an unprintable character.
    - b. The current directory.
    - c. The parent directory.
    - d. A current file.
    - e. The ROOT directory.

39. The shell meta-character used to separate multiple separate commands on the same line of typing is:

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- a. ;
- b. :
- c. @
- d. +
- e. .
- 40. In a directory that contains only the file **foo**, what happens after this command: cp foo bar
  - a. the command fails because the name **bar** does not exist
  - b. there is only the file named bar in the directory now
  - c. there is a copy of the file named **foo** in the file named **bar**
  - d. an empty file named **bar** is created
  - e. the command fails because bar is not a directory
- 41. In an empty directory, what happens after this command line:

- a. the files **a**, **b**, and **c** are moved to the current directory
- b. the files  $\mathbf{a}$ ,  $\mathbf{b}$ , and  $\mathbf{c}$  are moved to the directory  $\mathbf{c}$
- c. an error message: mv: target 'c' is not a directory
- d. the files **a** and **b** are moved into the directory **c**
- e. the files **a** and **b** are appended to the file c
- 42. 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 -4 | head -1   
 
$$a$$
. 4  $b$ . 8  $c$ . 6

- d. no output e. 1
- 43. What is the output of this command line in an empty directory:

- a. an error message from **echo** saying .??\* does not exist
- h. .a .b .c
- c. . . 1 2 3 .a .b .c
- d. .??\*
- e. . .. .a .b .c
- 44. If you type the command cat, which CTRL key will send an EOF and take you back to the command prompt?
- b. ^R
- c. ^C
- d. ^D
- 45. Which pathname almost always leads to the same file named: /bin/ls
  - a. ./bin/ls

- b. /./bin/./ls
- c. /bin/./bin/../ls

d. /bin/../ls

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

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

```
a. ../lib/y
```

 $b. \dots / \text{lib/x/y}$ 

c. ./lib/x/y

d. ../x/y

e. /x/y

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47.	Which pathname almost always leads to the same file named: /etc/passwd  a. /etc//passwd  b. /etc/etc//passwd	57.	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
48.	c/etc/passwd d. /etc/passwd/. e. /./etc/./passwd  If my current directory is /etc, which of these pathnames is equivalent to the pathname /etc/x/y?	58.	a. 5 b. 0 c. 2 d. 8 e. 3  What is the output on your screen after these command lines:  echo 1 >x; cp x y; echo 2 >>y  sort x >y; cat y
	a. /x/y b/x/y c/etc/x/y d/etc/x/y e/etc/y		a. 2       b. 1 followed by 2       c. no output         d. 1       e. 2 followed by 1
	In which section of the manual do you find standard commands?  a. 8  b. 1  c. 4  d. 2  e. 3  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. 0  b. 7  c. 12  d. 8  e. 10	59.	If directory dir contains these three four-character file names: .123, .124, .???, then what is the output on your screen of this command line: echo dir/????  a. dir/????  b. dir/.123 dir/.124 dir/.???  c. no output
51.	What is the output on your screen after this command line:  echo hi >a ; ls a > wc  a. 2  b. no output  c. 1 1 3	60.	<ul><li>d. dir/.123 dir/.124</li><li>e. echo: dir/????: No such file or directory</li><li>What is the correct syntax to redirect both standard output and standard error into the same output file?</li></ul>
52.	d. 3 e. 1 1 2 Which command line displays the contents of the Unix passwd file one page at a time?		a. date 1>out 2>1       b. date 2>&1 >out         c. date 2>1 >out       d. date >out 2>&1         e. date 1>out 2>out
50	a. less /etc/passwd b. cat less   /etc/passwd c. cat /etc/passwd less d. /etc/passwd cat less e. /etc/passwd   less	61.	If file <b>foo</b> 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 -4   tail -1
53.	What is in file <b>foo</b> after this command line: <b>echo 1 2 &gt;foo 3</b> a. <b>1 2</b> b. nothing (empty file)  c. <b>1 2 3</b> d. <b>3</b> e. <b>echo 1 2</b>	62.	a. 8 b. 9 c. 5 d. 6 e. 7  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. there is a second copy of the file foo in the file named bar
54.	In an empty directory, how many arguments are passed to the cat command in this command line: touch al		b. the directory mt/ now contains a file named bar c. the command fails because path/me/bar does not exist d. the command fails because path ./mt//foo does not exist
55.	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. 40 b. 200 c. 60 d. 100 e. 160	63.	<ul> <li>e. the directory mt now contains only a file named bar</li> <li>Which of the following commands will leave file1 non-empty?</li> <li>a. wc file1 &gt; file1</li> <li>b. head file1 &gt; file1</li> </ul>
56.	What does <i>quoting</i> mean on a shell command line?  a. using more than one pathname argument to a command, e.g. <b>rm a b c</b> b. turning off the special meaning of shell meta-characters  c. setting the PS1 variable to be your shell prompt		<pre>c. sort file1 &gt; file1</pre>

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d. using a leading tilde ("~") on a pathname to mean your HOME directory
e. typing a "control" character using the [CTRL] key

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64. What is the possible output on your screen of this command line: echo wc >date ; sort date >date ; cat date

a. 1 6 28 date

b. no output on screen

C. WC

d. Fri Mar 16 12:00:00 EST 2012

e. 1 6 29 date

65. In which section of the manual do you find super-user and admin commands?

b. 4

c. 8

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*d*. 3

*e*. 2

What is the output of this command line in an empty directory: 66.

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

a. .??\*

b. . . . . a .b .c

c. .a .b .c

d. no output

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

67. The command that creates a directory and all parent directories is:

a. mkdir -p a/b/c

b. mkdir -r a/b/c

c. touch a/b/c

d. rmdir -r a/b/c

e. rm -r a/b/c

68. 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 bar/mt

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

b. the command fails because **bar/mt** is not a directory

c. the directory **mt** now contains a file named **foo** 

d. the directory mt now contains a directory named bar

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

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

touch ./fil; mv sub/../fil ../myhome/cat

a. the directory **sub/..** now has a file named **cat** in it

b. there is a second copy of the file fil in the file named cat

c. the command fails because the path ../myhome/cat does not exist

d. the directory **sub** now contains only a file named **cat** 

e. the command fails because the path sub/../fil does not exist

70. Which of the following statements is true about this command line:

<dir/c cat dir/d

a. The command dir/c sees two arguments.

b. The command cat sees only one argument.

c. The command dir/c sees only one argument

d. The command cat sees two arguments.

e. The command is always invalid.

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

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a. ./etc/passwd

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

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

d. /etc/passwd/.

e. ../etc/passwd

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

touch pig pig ; ls >pig

*a*. 3

h. 4

c. 2

*d*. 0

e. 1

73. To prevent disconnections when using the Windows version of Putty, you should make this configuration change:

a. set the seconds between keepalives to 55

b. your password will not echo on your screen as you type

c. use your student number as your password

d. use your ACSIS password as your password

e. log in using your Blackboard userid

74. What is true about this command line: date >ls; ls -ls ls >wc

a. The **ls** command is executed more than once.

b. The **ls** command receives the output of **date** on standard input.

c. The file wc has one line in it.

d. The shell finds and executes three different commands.

e. The wc command counts the output of the 1s command.

75. Which command line displays all the names in the current directory that are exactly three digits long (and no others)?

a. echo [0-9][0-9][0-9]

b. echo [?][?][?]

c. echo [1-3][1-3][1-3]

d. echo [3][3][3]

e. echo ???

76. 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 ./me/../etc/passwd ../home/me/foo

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

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

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

77. 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/./.

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

a. cat foo >foo

b. sort foo >foo

c. ls foo >foo

d tail foo >foo

e. grep 'foo' foo >foo

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79.	In an empty directory, how many lines are in file <b>foo</b> after this command line:  1s nosuchfile 2>foo  a. 4 b. 1 c. 0 d. 3 e. 2	86.	In a manual page <b>SYNOPSIS</b> section, ellipsis (three dots) () mean:  a. something that is repeated b. something that is optional c. no special meaning d. a hidden directory						
80.	If <b>foo</b> is a sub-directory that contains only the file <b>bar</b> , what happens after this command: <b>mv</b> ./ <b>foo</b> / <b>bar foo</b> //me  a. the command fails because the name ./ <b>foo</b> / <b>bar</b> does not exist  b. the directory <b>foo</b> is now empty  c. the command fails because the name <b>me</b> does not exist  d. there is a second copy of the file <b>bar</b> in the file named <b>me</b> e. the directory <b>foo</b> now contains only a file named <b>me</b>	87.	<ul> <li>e. the parent directory</li> <li>If cow is a sub-directory that contains only the file dog, what happens after this command: mv cow/dog cow/././cat</li> <li>a. the command fails because the name cat does not exist</li> <li>b. the command fails because the name cow/././cat does not exist</li> <li>c. there is a second copy of the file dog in the file named cat</li> <li>d. the directory cow now contains only a file named cat</li> </ul>						
81.	If <b>foo</b> is a sub-directory that contains only the file <b>bar</b> , what happens after this command: <b>cp foo/bar ./foo//me</b> a. the directory <b>foo</b> is now empty  b. the command fails because the name <b>foo/bar</b> does not exist  c. there is a second copy of the file <b>bar</b> in directory <b>foo</b> d. there is a second copy of the file <b>bar</b> in the file named <b>me</b> e. the directory <b>foo</b> now contains only a file named <b>me</b>		<ul> <li>e. the directory cow is now empty</li> <li>In an empty directory, how many arguments are passed to the wc command in this command line: touch xx yy &gt;zz 123 .a b.; wc ??</li> <li>a. 0</li> <li>b. 2</li> <li>c. 4</li> <li>d. 5</li> <li>e. 1</li> <li>How many words are in file out after this command line: echo one &gt;two &gt;three &gt;out</li> <li>a. 3</li> <li>b. 0</li> <li>c. 2</li> <li>d. 1</li> <li>e. 4</li> </ul>						
82.	If my current working directory is /home, and my HOME directory is /home/foo, which command copies file /bin/ls into my HOME directory under the name xx?  a. cp//bin/./ls /foo/xx b. cp ./foo//bin/ls/foo/.xx c. cp .//bin/ls/foo/xx d. cp ././foo//bin/ls/home/foo/xx		To leave a shell and let the terminal window close, type:  a. quit b. bye c. [CTRL-C] d. exit e. q  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. 4 b. 5 c. 2 d. 3 e. 1  What would you type to find the string tony in the file /etc/passwd?						
	e. cp/home/./foo//bin/ls foo/xx  The purpose of the PS1 shell variable is:  a. to protect your HOME directory from access  b. to list your suspended jobs  c. to allow access to the ROOT directory  d. to find patterns inside a text file  e. to set the shell prompt  What is the absolute pathname of the Univ/Linux password (account) file?		<ul> <li>a. cat tony /etc/passwd</li> <li>b. find /etc/passwd -name tony -print</li> <li>c. grep /etc/passwd tony</li> <li>d. grep tony /etc/passwd</li> <li>e. find /etc/passwd -user tony -print</li> <li>93. How many lines are in the file bar after this command line:</li> <li>echo hi &gt;x ; echo ho &gt;&gt;x ; cat x &gt;bar</li> </ul>						
	What is the absolute pathname of the Unix/Linux password (account) file?  a. /bin/passwd b. /var/passwd c. /usr/passwd d. /lib/passwd e. /etc/passwd  What is the output of this command line in an empty directory:     touch .12 .345 .6789; echo .??*  a. an error message from echo saying .??* does not exist b12 .345 .6789 c. no output d12 .345 .6789 e??*	94.	a. 4 b. 1 c. 6 d. 2 e.  If I am in directory /home/me and mt is an empty sub-directory, what is after this command line: touch foo; mkdir bar; mv foo materials at the directory mt now contains a file named bar b. the directory mt now contains a file named foo 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 is still empty						

95. How do I search for the string **foo** in the text display output from the **man** command?

```
a. /foo
```

b. search foo

c. @foo

d. select "Search" in the menu

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e. find foo

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

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

b. \*

*c.* •

d. . .

e. no output on screen

97. 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*. 30

*b*. 50

c. **21** 

d. 20

98. Which command line below does *not* show any lines from inside the file **out**?

a. sort out

b. more out

c. wc out

e. 0

d. tail out

e. head out

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

touch 1 2 .a .b; echo .\*

a. .a .b

b. . . .a .b

c. 1 2

d. .\*

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

100. What is the output on your screen after this command line:

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

a. no output

b. dir/

c. dir/.aa dir/.bb

d. dir/\*

e. dir/. dir/.. dir/.aa dir/.bb

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

touch ./foo bar ; rm mt/../foo ../me/bar

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

b. the directory **mt** now contains a file named **foo** 

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

d. the directory **me** now contains a file named **bar** 

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

102. Which command below is the best way to find a line containing an asterisk (\*) in the file named **foo**?

```
\it a. grep ./* foo
```

b. grep foo "\*"

$$\it c$$
. grep \* foo

103. 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/. dir/.. dir/.on dir/.tw dir/.th dir/.f.

b. dir/\*

c. dir/.f.

d. no output

e. dir/.on dir/.tw dir/.th

104. The shell expands a leading tilde (~) in a pathname (e.g. ~/foo) to be:

*a.* the ROOT directory

b. your HOME directory

c. the parent directory

d. the directory /root

*e*. the current directory

105. Which command line below outputs only lines 11-15 of the Unix password file?

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

b. tail -15 /etc/passwd | head -10

c. tail -10 /etc/passwd | head -15 /etc/passwd

d. head -15 /etc/passwd | tail -5 /etc/passwd

e. head -15 /etc/passwd | tail -5

106. Which of these command line will make bar contain all of the content of £1 followed by all of the content of £2?

a. wc f1 f2 >bar

b. cp f1 f2 >bar d. mv f1 f2 >bar

c. cat f1 f2 >bar
e. echo f1 f2 >bar

107. 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

108. 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 -2 | head -1

a. 9

h. 2 2

c. 1

d. 8 8

e. 8

<ul> <li>109. In a directory containing one file named mt, what is the output on your screen after this command line: ls 2&gt;/dev/null nosuchfile</li> <li>a. bash: 2&gt;/dev/null: command not found</li> <li>b. mt</li> <li>c. ls: nosuchfile: No such file or directory</li> <li>d. no output</li> <li>e. nosuchfile</li> </ul>	<ul> <li>117. 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 &gt;c; cat a &gt;&gt;b; sort c b &gt;c a a. 8 b. 5 c. 0 d. 7 e. 12 </li> <li>118. If my current directory is /etc, which of these pathnames is equivalent to the file name /etc/passwd? a/passwd b/etc/passwd </li> </ul>
110. If file /a contains 30 lines, and file /b contains 50 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	<ul> <li>c/etc/passwd/.</li> <li>d. /passwd</li> <li>e/passwd</li> <li>119. If file x contains ten lines, and file y contains twenty lines, then how many lines</li> </ul>
a. 0 b. 50 c. 160 d. 80 e. 30  111. What is the output on your screen after this command line:  echo hi >ls; cat ls > wc  a. hi  b. no output on screen	are in file cat after this command line:  sort x y >z; tail -5 y >y; sort x y z >cat  a. 40 b. 60 c. 45 d. 0 e. 50
<ul> <li>a. hi</li> <li>b. no output on screen</li> <li>c. 1 1 3</li> <li>d. 1 1 2</li> <li>e. 1s</li> <li>112. Which CTRL key will erase a full line of typing in a terminal window?</li> </ul>	120. What is the output on your screen of this command line:  echo hi >hi ; head hi >hi ; wc hi  a. 1 1 3 hi b. 1 1 2 hi c. no output  d. 0 0 0 hi e. 2 2 4 hi
<ul> <li>a. ^I</li> <li>b. ^U</li> <li>c. ^C</li> <li>d. ^R</li> <li>e. ^D</li> </ul> 113. What is the output of this command line in an empty directory: touch 1 .1 23 .23 456; echo [12]*  a. an error message from echo saying [ab]* does not exist b. 1 23 c. 1 .1 23 .23 456 d. 1 .1 23 .23	<ul> <li>121. What is the result of this exact command line: ls /foo bar</li> <li>a. the two text strings /foo and bar will be displayed</li> <li>b. the names of the pathnames /foo and bar will be displayed</li> <li>c. the contents of the files /foo and bar will be displayed</li> <li>d. file /foo will be copied to bar</li> <li>e. all the files under directory /foo with the name bar will be displayed</li> <li>122. In an empty directory, how many arguments are passed to the rm command in this</li> </ul>
<ul> <li>e. [12]*</li> <li>114. What is the result of this exact command line: cat /foo bar</li> <li>a. the two text strings /foo and bar will be displayed</li> <li>b. all the files under directory /foo with the name bar will be displayed</li> <li>c. the names of the pathnames /foo and bar will be displayed</li> <li>d. the contents of the files /foo and bar will be displayed</li> <li>e. file /foo will be copied to bar</li> </ul>	command line: touch a al a2 ba ca; rm a*  a. 3 b. 1 c. none d. 4 e. 2  123. Given an existing file of yours named cat, what is the output on your screen of this command line: echo xx >cat; head cat >cat; wc cat  a. 0 0 0 cat b. 1 1 2 cat c. 2 2 4 cat  d. no output e. 1 1 3 cat  124. In an empty directory, what is the output on your screen after this command line:
115. How do you search for the word nongraphic in the man page for ls?  a. type man -k nongraphic at the shell b. type man nongraphic   grep ls at the shell c. type man ls at the shell, then /nongraphic d. type man ls -nongraphic at the shell e. type man ls at the shell, then 'F (CTRL-F), then nongraphic  116. Which of these characters is not a shell GLOB meta-character?	echo hi >a ; ls nosuchfile 2>/dev/null  a. ls: 2>/dev/null: No such file or directory  b. no output  c. ls: nosuchfile: No such file or directory  d. a  e. nosuchfile
a. ] b. ? c. [ d. # e. *	

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e. 4

e. 0

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125. What is the output of this command line in an empty directory: 134. How many words are in the file **x** after this command line: touch .a .b .c ; echo .\* echo 1 2 >x; echo 3 >x; echo 4 >>xh. 2 *d*. 0 a. .a .b .c *a*. 3 c. 1 b. an error message from **echo** saying .\* does not exist 135. What is the result of this exact command line: echo /foo bar a. the names of the pathnames /foo and bar will be displayed d. . . . . a .b .c b. file /foo will be copied to bar e. no output c. the two text strings /foo and bar will be displayed 126. If a shell token with a GLOB pattern contains two slashes, how many slashes can be d. all the files under directory / foo with the name bar will be displayed in each matched pathname? e. the contents of the files /foo and bar will be displayed a. zero, one, or two b. one or two c. one, two, or more 136. What command can you use to delete an empty directory? d. exactly two e. two or more a. mvdir h delete c erase 127. If **foo** is a sub-directory that contains only the file **bar**, what happens after this d. rmdir e. deldir command: mv foo/me foo/bar 137. How many lines are in the file **out** after this command line: a. the command fails because the name **me** does not exist echo hi >x ; echo ho >>x ; cat x x x >out b. there is only the file named **me** in the directory now b. 3 d. 2 a. 6 c. 1 c. the command fails because **bar** is not a directory 138. If directory cow contains only these four three-character file names: .AA. .A1. d. there is a second copy of the file bar in the file named me .BB, .B., then what is the output on your screen of this command line: e. an empty file named **me** is created echo cow/\* 128. Which command pipeline outputs the count of the number of manual page titles that a. cow/\* contain the keyword "sort"? b. cow/.AA cow/.A1 cow/.BB a. man sort ; wc b. wc man sort c. cow/.B. c. man -k sort | wc d. man sort | wc d. no output e. wc -k sort e. cow/.AA cow/.A1 cow/.BB cow/.B. 129. If file a contains 2 lines, and file b contains 3 lines, then how many lines are output 139. In a directory that contains only the file **foo**, what happens after this command: on your screen by this command line: cat a | cat b mv foo bar a. 2 *b*. 5 c. 3 a. the command fails because **bar** is not a directory d. no output e. 0 b. there is a copy of the file named **foo** in the file named **bar** 130. Which command line lists all possible utilities available for compiling programs? c. an empty file named **bar** is created a. locate compile b. man compile d. the command fails because the name **bar** does not exist c. man -k compile d. grep 'compile' /etc/ e. there is only the file named **bar** in the directory now e. find compile 140. In the output of **ls** -a, the two-character name . . signifies what? 131. How many arguments does the shell pass to this **echo** command: a. The parent directory. echo one two three >four five b. The current directory. *a*. 5 h. 4 c. 6 d. 2 e. 3 c. A file or directory with double links. d. The ROOT directory. 132. If file twenty contains twenty lines, and file thirty contains thirty lines then e. It begins every name that is hidden. how many lines are output on your screen by this command line: tail twenty | cat thirty b. 0 c. 50 d. 40 a. 20 e. 30 133. How many lines are in file **out** after this command line: date >wc >cat >out a. 1 b. 1 6 29 c. 0 0 0

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e. 2

*d*. 0

```
141. In an empty directory, what happens after this command line:
         mkdir a b c; mv a b c
```

- a. the directories **a**, **b**, and **c** are moved to the current directory
- b. the directories **a** and **b** are moved into the directory **c**
- c. an error message: mv: target 'c' is not a directory
- d. the directories  $\mathbf{a}$ ,  $\mathbf{b}$ , and  $\mathbf{c}$  are moved to the directory  $\mathbf{c}$
- e. the directories **a** and **b** are appended to the directory **c**
- 142. What command shows all the lines in file **cow** that contain the string **pig**?
  - a. grep pig >cow

b. grep cat cow pig

c. grep cow pig

- d. grep pig <cow
- e. cat cow > grep pig
- 143. To change your own account password, use this exact command line:
  - a. \$ passwd cst8207.idallen.ca
  - b. \$ passwd
  - c. \$ passwd cst8207
  - d. \$ passwd options LOGIN
  - e. \$ passwd root
- 144. In an empty directory, what is the output on your screen after this command line:

date >.foo >.bar : ls \*

- a. \*
- b. no output
- c. an error message from 1s saying \* does not exist
- d. . . . . foo .bar
- e. .foo .bar
- 145. In an empty directory, what is the output on your screen after this command line:

ls 1>/dev/null nosuchfile

- a. ls: nosuchfile: No such file or directory
- b. no output
- c. ls: 1>/dev/null nosuchfile: No such file or directory
- d. ls: /dev/null: No such file or directory
- e. nosuchfile
- 146. 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 ../home/me/../etc/passwd ./me/./foo
  - d. cp ../etc/passwd ./me/foo
  - e. cp ./me/../etc/passwd ../home/me/foo
- 147. If you type the command sleep 60, which CTRL key will interrupt it and take you back to the command prompt?
  - a. AC
- b. ^tī
- c. ^R
- d ^I
- e. ^D

148. 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

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- a. there is a second copy of the file **foo** in the file named **bar**
- b. the directory mt now contains only a file named bar
- c. the parent directory of mt now contains a file named bar
- d. the command fails because the path ../me/bar does not exist
- e. the command fails because the path ./mt/../foo does not exist
- 149. If I am in my HOME directory named /home/myhome and dir is an empty subdirectory, what is true after this command line:

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

- a. the command fails because the path ../myhome/old does not exist
- b. the parent directory of dir now has a file named old in it
- c. the command fails because the path ./dir/../new does not exist
- d. the directory **dir** now contains only a file named **old**
- e. there is a second copy of the file **new** in the file named **old**
- 150. How many lines are in the file **bar** after this command line:

echo hi >x ; echo ho >>x ; cat x x >bar a. 4 b. 6 c. 2 d. 0 e. 1

- 151. Give the minimum number of directories in this pathname: /a/b/c/d
  - a. 4
- h. 3
- d. 2
  - e. 5
- 152. If my current working 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 ./me/../etc/passwd ../home/me/foo
  - b. cp ../../etc/passwd /me/foo
  - c. cp ../etc/passwd ../me/foo
  - d. cp ../home/me/../etc/passwd ./me/./foo
  - e. cp ../etc/passwd ./me/foo
- 153. 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 -r foo foo | tail -4 | head -1

a. 96

b. 96 96

c. 98

c. echo [a]

d. 04 04

- e. 02
- 154. Which command line displays all the non-hidden names in the current directory that contain the letter **a** (and no others)?
  - a. echo \*a\* d. echo ?a?
- h. echo a\*
- e. echo \*a

155. 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. the directory  $\mathbf{x}$  now contains only a file named  $\mathbf{y}$
- b. the command fails because the path x/./fil does not exist
- c. there is a second copy of the file fil in the file named y
- d. the command fails because the path  $\mathbf{x}/.../me$  does not exist
- e. the directory  $\mathbf{x}$  is still empty
- 156. If my current directory is /usr, which of these pathnames is equivalent to the pathname /usr/x/y/z?

a. /x/y/z

b. ../x/y/z

c. ./usr/x/y/z

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d. ../usr/y/z

e. x/./y/z

- 157. In the output of the command 1s -a, a dot (period) that begins a name signifies what?
  - a. A name that is hidden.
  - b. A current file.
  - c. A name with an unprintable character.
  - d. The parent directory.
  - e. The current directory.
- 158. What is the *current directory*?
  - a. The directory named . . (dot dot)
  - b. The directory that your shell (or any Unix process) is in now
  - c. The directory named /current
  - d. This is where "root" goes when "root" logs in to the system
  - e. The directory into which you are placed when you first log in
- 159. If a shell GLOB pattern fails to match anything, what happens by default? The shell:
  - a. returns the closest match to the pattern
  - b. gives an error message and does not execute
  - c. removes the pattern and passes nothing
  - d. gives a warning message but continues
  - e. passes the pattern unchanged to the command
- 160. 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. no output
  - *b.* 25 pathnames
  - c. 15 directory names
  - d. an error message because \*/. does not exist
  - e. \*/.

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

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- a. cp ../../etc/./passwd /ian/bar
- b. cp ./../etc/passwd ../ian/bar
- c. cp ../var/./ian/../etc/passwd ./ian/./bar
- d. cp ././ian/../etc/passwd ../var/ian/bar
- e. cp ./ian/../../etc/passwd ian/bar
- 162. 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 -3 | head -1 b. 8

a. 2 2

c. 8 8

d. 9

e. 1

e. 4

- 163. 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** is now empty
  - b. the command fails because the name **foo/./bar** does not exist
  - c. the directory **foo** now contains only a file named **me**
  - d. there is a second copy of the file bar in the file named me
  - e. the command fails because the name **me** does not exist
- 164. How many lines are in file out after this command line:

echo hi >dog >out >cat

a. 1

b. 0

c. 3

d. 2

- 165. If ian is a sub-directory that contains only the file foo, what happens after this command: mv ./ian/./foo ./ian/../bar
  - a. the command fails because the name ./ian/../bar does not exist
  - b. the directory **ian** is now empty
  - c. the directory ian now contains only a file named bar
  - d. the command fails because the name ./ian/./foo does not exist
  - e. there is a second copy of the file **foo** in the file named **bar**
- 166. 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 directory **dir** now contains only a file named **old**
- b. the command fails because the path ./dir/../new does not exist
- c. the command fails because the path ../me/old does not exist
- d. the parent directory of dir now has a file named old in it
- e. there is a second copy of the file named **new** in the file named **old**
- 167. 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/passwd/.

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

```
a. 2 not found
```

b. nosuchfile not found

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```
c. nosuchfile 2 not found
```

d. no output

e. nosuchfile

169. 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
                                      d. 12
            b. 5
                         c. 7
a. 24
                                                  e. 0
```

170. In an empty directory, what is the output on your screen after this command line: echo hi >a ; sort \* 1>/dev/null

a. no output

*b*. **a**.

c. sort: \*: No such file or directory

d. hi

e. sort: 1>/dev/null: No such file or directory

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

a. man compile

b. apropos compile

c. locate compile

d. grep compile /etc/

e. find compile

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

```
touch a b .1 .2; echo .??*
```

a. . . . a b .1 .2

*b*. **a b** 

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

d. .??\*

*e.* . . . . . . . . . . . . 2

173. 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. cat a >foo ; cat b >>foo

b. echo a b >foo

c. mv a b > foo

d. cp a >foo; cp b >>foo

e. cp a b >foo

174. Which command line displays all the non-hidden names in the current directory that contain the case-insensitive word **me** (and no others)?

```
a. echo *[me]*
```

b. echo ?[MmEe]?

c. echo \*[MmEe]\*

d. echo \*[Mm][Ee]\*

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

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

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

c. the directory **mt** now contains only a file named y

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

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

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

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

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

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

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

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

177. The basic purpose of a shell is:

a. to search for strings inside text files

b. to expand pathnames

c. to format hard drives

d. to program system administration backup procedures

e. to find and run commands

178. If my current directory is /lib, which of these pathnames is equivalent to the file name /lib/foo?

a .../lib/foo/.

h. /foo

c. ./foo

d./lib/foo

e. ../foo

179. 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. 4

b. none

c. 2

*d*. 3

e. 1

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

a. rm -all dir

b. rmdir -r dir

c. rm -r dir

d. rmdir -all dir

e. deltree -all dir

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

a. /./etc/./passwd

b. /etc/etc/../passwd

c. /etc/../passwd

d. /etc/passwd/.

e. ./etc/passwd

c. /foo

182. Which of these pathnames is *not* an absolute pathname (after all shell expansions)? a. ~/foo

b. SHOME/foo

d. foo

e. /../foo

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e. 0

e. 20

c. cd

183. What is the output on your screen of this command line: 192. If pig is a sub-directory that contains only the file dog, what happens after this echo wc >wc ; wc wc >wc ; cat wc command: mv pig/dog pig/././cat b. 1 1 3 wc a. the command fails because the name cat does not exist a. no output c. 1 1 2 wc b. there is a second copy of the file named dog in the file named cat d. 0 0 0 wc e. wc c. the command fails because the name pig/././cat does not exist 184. If /bin/bash is a file name, which pathname always leads to the same file? d. the directory pig now contains only a file named cat a. /../bin/./bash b. /bin/../bash e. the directory pig is now empty d. /bin/bash/. c. ./../bin/bash 193. Which of these commands always returns you to your account HOME directory? e. /bin/bin/../bash a. cd /home b. cd /home/.. 185. In an empty directory, how many arguments are passed to the cat command in this d. cd .. e. cd home command line: date >a1 ; touch a2 ba ca ; cat a\* b. 1 c. 3 d. 4 e. 2 194. What command can you use to delete a directory that isn't empty? a. none a. del -r dir b. deltree -r dir 186. In an empty directory, what is the output on your screen after this command line: c. rm -r dir d. deldir -r dir ls 2>/dev/null nosuchfile e. rmdir -r dir a. ls: /dev/null: No such file or directory b. ls: 2>/dev/null nosuchfile: No such file or directory 195. In a directory containing one file named **dog**, what is the output on your screen after this command line: 1>/dev/null ls \* c. nosuchfile d. no output a. no output e. ls: nosuchfile: No such file or directory b. dog c. ls: \*: No such file or directory 187. What is the output of this command line in an empty directory: touch 1 2 3 .a .ab .abc ; echo [.]\* e. bash: 1>/dev/null: command not found a. [.]\* b. an error message from **echo** saying [.]\* does not exist 196. What is the output on your screen of this command line: c. .a .ab .abc echo bat >pig ; echo one | tail pig d. . . . . a . ab . abc a. an error message b. one followed by bat e. no output c. bat followed by one d. bat. e. one 188. If file a contains 20 lines, and file b contains 30 lines, then how many lines are in file out after this command line: 197. What is your HOME directory? cat a b >c; head c >c; sort a b c >out a. The top directory of the Unix/Linux/BSD/OSX file system tree *a*. 50 *b*. 30 c. 60 *d.* 100 e. 0 b. The directory into which you are placed when you first log in c. The directory that your shell is in now 189. In an empty directory, what is the output on your screen after this command line: touch a ; ls >wc -l d. The directory named /home e. This is where "root" goes when "root" logs in to the system *a*. 3 b. 1 c. 2 e. 0 d. no output 198. In an empty directory, how many words are in file **foo** after this command line: date >.bar >.out ; ls >foo 190. If my current directory is /etc, which of these pathnames is equivalent to the file a. 2 name /etc/passwd? h. 3 d. 1 c. 4 a. ../etc/passwd/. b. ./etc/passwd 199. If file /a contains 30 lines, and file /b contains 50 lines, then how many lines are c. /passwd d. passwd output on your screen by this command line: cat /a | sort /b e. ../passwd a. 0 b. 50 d. 30 c. 80 191. In a manual page **SYNOPSIS** section, square brackets ([]) mean: a. an arithmetic expression b. a GLOB pattern matching a list c. something that is repeated d. no special meaning e. something that is optional

e. 6

200.	Which command below is the best way to find a line containing a question mark (?) in the file /etc/passwd?							
	<pre>a. grep '?' /etc/passwd</pre>	b. grep './?' /etc/passwd						
	c. search '?' /etc/passwd	d. find '?' /etc/passwd						
	<pre>e. grep /etc/passwd '?'</pre>							

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201. 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 -5 | head -1
a. 5 5
             b. 1
                                      d. 1 1
                         c. 9
                                                    e. 7
```

202. What happens when you try to change to the parent directory of ROOT, e.g. cd / ; cd ..

a. the shell current directory is still ROOT; no change

b. you go to the parent directory containing your C: drive

c. the shell asks you to retype this invalid directory

d. the shell issues a warning, but changes to the parent

e. the shell issues an error message and does not change

203. 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:

b. [CTRL]-[C] a. [TAB] c. [ALT] d. [CTRL]-[D] e. [ALT]-[F1]

204. Which of these statements is true?

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

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

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

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

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

205. If my current working 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 ./me/../etc/passwd ../home/me/foo

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

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

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

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

206. If my current directory is /home, which of these pathnames is equivalent to the pathname /home/a/b/c?

a. ./home/a/b/c b.  $\cdot/a/b/c$ c. ../home/b/c d. ../a/b/c *e.* /a/b/c

207. In an empty directory, how many words are in file out after this command line: touch a : ls >out

*a*. 1 b. 3 c. 2 *d*. 0 e. 4 208. 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

*a*. 0 b. 60 c. 30 d. 20 e. 10

209. In an empty directory, how many words are in file out after this command line: touch 1 2 3 2 1; ls >out

h 5 a. 4 c. 3 *d*. 0

210. What is the output of this successful command sequence?

cd /home/dir; mkdir one; mkdir two; pwd

a. /two b. /home/dir

c. /home/dir/one d. /home/dir/one/two

e. /home/dir/two

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

a. hi

b. hi >foo

c. no output

d. cat: foo: No such file or directory

e. hi >foo >bar

212. If my current directory is /home, which of these pathnames is equivalent to the pathname /home/a/b/c?

a. ../home/b/c b. ../home/a/b/cc. ./home/a/b/c d. ../a/b/c

e. /a/b/c

213. The option to **ls** that shows which names are directories is:

a. -1 b. -d c. -1 d. -a e. -i

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

a. /bin/bash/. c. ./bin/bash

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

e. /./bin/./bash

215. 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/.aa dir/.ab dir/.a? dir/.a\*

b. dir/.aa dir/.ab

c. dir/???

d. dir/.a?

e. no output

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

date >f ; ls f >>f ; cat f f >out b. 6 c. 4 d. 1 e. 3

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

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```
touch ./fil; mv sub/../fil ../me/cat
```

- a. the directory **sub** now contains only a file named **cat**
- b. there is a second copy of the file fil in the file named cat
- c. the command fails because the path sub/../fil does not exist
- d. the command fails because the path ../me/cat does not exist
- e. the directory **sub/..** now has a file named **cat** in it

218. Which command line tells you the recursive count of all pathnames under the current directory and all subdirectories?

```
a. wc .
                      b. wc "$PWD"
```

c. find | wc

d. ls | wc e. wc \*

219. The output of the **tree** command is:

- a. the tree of files under the ROOT directory
- b. the tree of users logged in to the system
- c. a recursive list of users logged in to the system
- d. an indented, recursive list of directories and their contents
- e. the tree of files under your HOME directory

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

```
h 2
                           c 4
a. 1
                                         d. none
```

221. 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. an error message from **echo** saying [ab]\* does not exist
- d. a .a bc .bc
- e. [ab]\*
- 222. If I am in my HOME directory named /home/ian and mt is an empty subdirectory, what is true after this command line:

- a. the file named cat is now renamed to dog
- b. the directory **mt** is still empty
- c. the command fails because the path ./mt/../cat does not exist
- d. the directory **mt** now contains two files
- e. the directory mt now has a file named dog in it
- 223. How many arguments and options are there to the command: wc -wc wc
  - a. Two arguments, no options.
  - b. Two command line arguments, one of which contains two bundled options.
  - c. Two arguments, one of which is a single option and the other is a pathname.
  - d. Two command name arguments and two bundled options.
  - e. Two options, no arguments.

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

```
touch .a .b .c; echo [.]*
```

- a. .a .b .c
- b. . . . . a .b .c
- c. no output
- d. an error message from **echo** saying [.]\* does not exist
- e. [.]\*

227 M/C Questions

225. 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/passwd
- 226. In a directory containing one file named **dog**, what is the output on your screen after this command line: 2>/dev/null ls nosuchfile
  - a. bash: 2>/dev/null: command not found
  - b. nosuchfile
  - c. ls: nosuchfile: No such file or directory
  - d. no output
  - e. dog

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

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