180 M/C Questions -1-3 hours 180 M/C Questions -2-5. [27/76] What is the output of this in an empty directory: **1s** \* PRINT Name: a. an error message from **ls** saying **\*** does not exist b. . . . **One-Answer Multiple Choice** 180 Ouestions Weight 40% c. an error message from **bash** saying **\*** does not exist The Read **all** the words of these instructions and **both** sides (back and front) of all pages. *d*. no output on screen The Manage your time. Answer questions you know, first. One Answer per question. e. \* PRINT your full Name on this Question Sheet. You may write or draw on this sheet. 6. [29/76] What permissions are given to **newfile** after this: ☞ Use your full, unabbreviated name on the mark-sense form. Do not abbreviate your name. umask 362 ; touch newfile The Enter your NAME, Student Number, and Answers. Fill in the bubbles with pencil, no pen. The answer to the last question about these test instructions is jes spelled backwards. a. -wx---r-b. **r**---**xr**-**x** d. -wxr-x-we. r----r--7. [31/76] In an empty directory, how many words are in file **e** after this: 1. [13/75] If d='Assignments/assignment11' then which of these echo Isn't >a Pat's. It's >c Lee's. >d ; ls >e symbolic links enables the script **partA**. **sh** to run as my own command h. 1 a. 2 c. 3 named **partA**? a. ln -s ../../CST8207-19W/\$d/partA.sh ~/bin/partA 8. [33/76] In an empty directory, what is the output on your screen: echo hi >.a ; echo ho >.b >.c ; ls \* b. ln -s ./CST8207-19W/\$d/partA.sh ~/bin/partA c. ln -s CST8207-19W/\$d/partA.sh ~/bin/partA a. \* d. ln -s ../CST8207-19W/../\$d/partA.sh ~/bin/partA b. an error message from **1s** saying **\*** does not exist e. ln -s ../CST8207-19W/\$d/partA.sh ~/bin/partA *c*. no output d. hi ho [16/76] In an empty directory, what is the output on your screen of this 2. e. . .. .a .b .c unquoted set of three commands: mkdir a b c ; touch a/34 a/56 a/?? 345 456 56 [36/76] If a shell script **myscript**.**sh** is called this way: 9. find a -name ?? ./myscript.sh a b c b. a/?? and the first line inside the script below the script header is a. a/56 shift ; echo "\$#\$2" c. a/34 *d*. no output what is the output of that line? e. a/?? a/34 a/56 h. 2a a. 2c c. 3b [24/76] Change an existing directory **dir** into one where anyone can put a 3. file, but nobody can see the names of the files that are there: 10. [37/76] In an empty directory, how many words are in file **c** after this command line: touch a >b ; ls >c a. chmod ugo+x dir ; chmod 222 dir a. 1 b. 2 *c*. 3 b. chmod 333 dir ; chmod ugo-x dir c. chmod 012 dir ; chmod ugo+wx dir 11. [37/76] Which of these outputs an error message on Standard Error? d chmod 222 dir *a.* echo 2>\$1 'error' b. echo 1>2 'error' e. cd dir ; chmod 333 dir d. echo 1>\$2 'error' c. echo 2>&1 'error' 4. [27/76] What is the correct syntax to redirect both standard output and e. echo 1>&2 'error' standard error into the same output file? 12. [39/76] Remove the file named (including space and quotes): a. cmd 1>out 2>outb. cmd 2>&1 > outIt's "ugly"! d cmd 1>out 2>1 c. cmd 2>1 > outa. rm It's\ "ugly"! b. rm "It's"' "ugly"!' e. cmd >out 2>&1 c. rm 'It\'s\ "ugly"!' *d.* rm "It's" '"ugly"!' e. rm It's "ugly"!

3 hours

C. -wxrw--w-

e. 4

e. 2b

e. 4

d. 0

d. 3a

*d*. 0

100 100 0

3 hours

13.	<pre>[40/76] If a shell script named foo contains the line: if [ '\$3' = "\$2" ] ; then echo SAME ; fi then which of the following command lines will always produce SAME as output?</pre>
	a/foo 1 '\$3' 2       b/foo '\$1' "\$3" \$2         c/foo \$1 '\$2' \$3       d/foo \$1 \$2 \$3         e/foo \$3 "\$2" \$1       b/foo \$1 \$2 \$3
14.	<ul> <li>[42/76] A Unix/Linux "tarball" is:</li> <li>a multi-file directory containing individual compressed files</li> <li>a single-file that contains individual uncompressed files</li> <li>a single compressed file containing one uncompressed file</li> <li>a multi-file directory containing individual uncompressed files</li> <li>a single-file that contains individual compressed files</li> <li>a single-file that contains individual compressed files</li> </ul>
15.	[42/76] File <b>a</b> occupies one disk block. How many disk blocks are in use after this: <b>cp a b</b> ; <b>ln b c</b> ; <b>cp c d</b> ; <b>ln c e</b> ; <b>rm c</b> a, <b>4</b> $b$ , <b>3</b> $c$ , <b>2</b> $d$ , <b>0</b> $e$ , <b>1</b>
16.	[42/76] How many arguments are passed to the command by the shell: \$ <in "-b="" '-d'="" -a="" c"="" cmd="">a b c d</in>
17.	a. 5 b. 3 c. 4 d. 6 e. 7 [42/76] If /bin/foo is a program that outputs mom and /usr/bin/foo is a program that outputs dad, what would be the output on your screen: PATH=/dev:/usr/bin:/usr:/bin ; touch dad ; /bin/foo
	<ul> <li>a. mom</li> <li>b. bash: /dev/bin/foo: command not found</li> <li>c. dad followed by mom</li> <li>d. dad</li> <li>e. bash: /bin/foo: command not found</li> </ul>
18.	<ul> <li>[42/76] which of the following statements is true about this line?</li> <li>if [ "x" != "x" ] ; then echo NO ; fi</li> <li>a. Command "[" is passed four arguments</li> <li>b. The "if" keyword is always followed by "["</li> <li>c. an "invalid number" error would result</li> <li>d. "NO" would be printed</li> <li>e. "fi" would cause a "command not found" error</li> </ul>

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19.	[43/76] What would the fol a. read commands from stdi b. run the user's <b>crontab</b> j c. issue an error message d. run the user's <b>crontab</b> j e. read commands from stdi	n to be run once at 4pm jobs every day at 4pm jobs once at 4pm	
20.	[44/76] File <b>foo</b> contains 9 number of the line in the file screen of this command: <b>cat foo foo   ca</b> a. 9 b. 6		ne output on your
21.	[45/76] How many lines are date >wc >cat >o		
		2 . 0	<i>c</i> . <b>0 0 0</b>
22.	[45/76] If my current direct password file into existing dir a. cp//etc/./pa b. cp/tmp/./dir/. c. cp .//etc/passw d. cp dir///etc	rectory /tmp/dir unde sswd /dir/bar ./etc/passwd ./di d/dir/bar tc/passwd dir/bar	er the name <b>bar</b> ?
23.	[45/76] The <i>difference</i> betw (personal) crontabs is:	veen the system ( <b>root</b> )	crontab and all the user
	<ul> <li><i>a.</i> the personal crontab only</li> <li><i>b.</i> the personal crontab has t</li> <li><i>c.</i> the personal crontab also</li> <li><i>d.</i> the system crontab has the</li> <li><i>e.</i> the system crontab also has</li> </ul>	he date and time in it has the userid in it e date and time in it	
24.		rt ls >ls ; cat l	s
	······································	. 1 1 2 ls . ls	c. <b>1 1 3 ls</b>
25.	[46/75] If a shell token with many slashes can be in each		ns three slashes, how

*b.* two or three

*d.* one, two, or three

c. zero, one, two, or three *e*. exactly three

*a*. three or more

180	M/C Questions	-5-	3 hours	180	M/C Questions		-6-		3 hours
26.	your screen after this: a. ls: *: No suc	containing one file named 1>/dev/null ls * h file or director null: command not			a. <b>3</b> [48/76] If I hav link count by exa	this: <b>In b d</b> <b>b. 2</b> e a directory ctly one?	; <b>1n d c ;</b> <i>c</i> . <b>5</b> named <b>x/y</b> , y	cat a b e c d. 4 which action wou	1 >c e. 0
27.	[46/76] The signal se key is: a. SIGINT d. SIGKILL	nt to a foreground process l b. SIGSTOP e. SIGHUP	by typing the [Ctrl-C]	35.	a. ln x/y x/ c. ln x x/y/ e. mkdir x/y [48/76] In Linu	<b>z</b> <b>/ z</b> x system log	d. ging, processe		
28.		bczf file ecf file	zip-style archive named		<ul><li>b. copy logs from</li><li>c. write log entr</li><li>d. write log files</li></ul>	m your <b>\$HON</b> ies directly in into each us	<b>T</b> directory to nto the system er's <b>\$HOME</b> di		1 directory
29.	are in file <b>out</b> after th	head c >a ; sort	-	36.	[48/76] Which altf a.ta ctgz a.ta elvf a.ta	r.gz r.gz	<i>b</i> .	ssed archive with -xzf a.tar. -tzf a.tar.	gz
30.	after this:	ies one disk block. How m ; cp c a ; ln a e c. 0	-	37.	[48/76] What w echo x y a. 3 d. \$NF	<b>z   awk</b> <i>b</i> .	output of the fo '{print \$ NF xyz		d line:
31.		yes ;; s ;; yes ;;	ollowing <b>case</b> patterns	38.	command line: <i>a.</i> <b>123</b>	if [ \$a 23: integ string e	= \$b ]; th ger expres expression	nen echo \$a sion expecte expected	; fi
32.				39.	<pre>c. if [ test d. if test '</pre>	'txt' foo txt' = foo 'txt' foo txt' foo	o; then e oo; then oo]; the ; then ec	cho OK ; fi echo OK ; fi n echo OK ;	fi

180	M/C Questions	-7-	3 hours 180	) M/C Questions	-8- 3 hours
40.	[48/76] What system group ofauth.log file?a. authb. sd. adme. g		49.	cd /tmp ; mkdir dir Which next command will execu a. ls	bommand line (note the dot argument): <b>c</b> ; <b>cd dir</b> ; <b>chmod u-x</b> . te without any "permission denied" errors? <i>b</i> . <b>ls /tmp/dir/</b> .
41.	[48/76] To append directory /s a. \$PATH=\$PATH:/sbin c. \$PATH=PATH:/sbin e. \$PATH+=PATH:/sbin	sbin to your search path: b. PATH=\$PATH:/sbin d. PATH=PATH:/sbin	50.		<ul> <li>d. ls /tmp/dir</li> <li>ls -l shows a symbolic link bar -&gt;</li> <li>the absolute path of bar with no symbolic</li> </ul>
42.	lines are in file <b>cat</b> after this:	es. File y contains twenty lines. How -n 5 y > y; sort x y z > 0 c. 0 $d. 50$ $e.$	-	a. /bin/dir/foo c. /bar//dir/foo e. /bin/bar/dir/foo	<pre>b. /bin/dir/foo/bar d. /dir/foo</pre>
43.	[49/76] Given an existing file n screen: echo $xx > cat$ ; h a. 1 1 3 cat b. n	amed cat, what is the output on you head cat >cat ; wc cat o output c. 0 0 0 cat	51. at	[51/76] If you type the comman and take you back to the comman $a$ . <b>^D</b> $b$ . <b>^R</b> [51/76] What is in file <b>c</b> after t	c. <b>^E</b> d. <b>^U</b> e. <b>^C</b>
44.		2       4       cat         how many lines are in file foo after to          2>foo         c.       4       d.       2       e.	this:		echo bar >>b ; ln a c ; rm a b. nothing (empty file) d. bar
45. 46.	<i>a.</i> <b>623</b> <i>b.</i> <b>044</b> [49/76] If variable <b>var</b> might	contain nothing (a null value - defined rrectly tests for this and prints <b>NULL</b> ? ; <b>then echo NULL</b> ; <b>fi</b>	<b>022</b>	[52/76] Can files have the same a. no: inode numbers only apply b. no: inode numbers are unique	across all file systems bers on more than one file system inique inside a file system
	c. if [ $\$var = /dev/nul$ d. if [ $\$var' = ''$ ] ; e. if test " $\$var' = *$ ; [50/75] File a occupies one dis after this: cp a b ; ln b a. 4 b. 1 [50/76] File a occupies one dis after these commands:	II ] ; then echo NULL ; f: ; then echo NULL ; fi ; then echo NULL ; fi sk block. How many disk blocks are	in use <b>2</b> in use	•	under <b>/etc</b> named <b>bar</b> that has target /xyz'
	a. 2 b. 4	c. 3 d. 5 e.			

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180 M/C Questions

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3 hours

3 hours

55.	<ul> <li>[52/76] How many arguments and options are there to the command: 1s -al /etc</li> <li>a. Two command line arguments, one of which contains two bundled options.</li> <li>b. Two options, no arguments.</li> <li>c. Two arguments, one of which is a single option and the other is a pathname.</li> <li>d. A three-letter file name and an /etc switch option.</li> <li>e. Two arguments, no options.</li> </ul>
56.	[52/76] If /bin/bash is a file name, which pathname always leads to thesame file?a. /bin/bash/.b/bin/bashc. ///bin/bashe/bin/bash
57.	$[52/76]$ If directory a contains only these five two-character names: a?,11, ?1, 1*, .1, then which command removes only the single two- character name ?1 from the directory?a. rm a/*1b. rm a/?1c. rm a/?1c. rm a/??d. rm a/1*e. rm a/\??
58.	<ul> <li>[52/75] If the current directory contains 10 visible files and 5 visible sub- directories, what is the output on your screen of this command:</li> <li>1s -d */.</li> <li>a. 5 directory names</li> <li>b. an error message because */. does not exist</li> <li>c. 15 pathnames</li> <li>d. */.</li> <li>e. no output</li> </ul>
59.	<ul> <li>[52/76] Other than root, who can change the permissions of the following directory? dr-xrwxrwx 17 bar foo 4096 Apr 15 16:40.</li> <li>a. only users in group foo</li> <li>b. anyone except user bar</li> <li>c. only user bar</li> <li>d. user bar and any user in group foo</li> <li>e. only root can change the permissions</li> </ul>
60.	[52/76] What is the link count of file <b>f</b> after these successful commands? <b>rm f</b> ; touch f; cp f x; cp f f2 ln f a; ln x y; ln a z; ln z q a. 2 b. 5 c. 6 d. 3 e. 4

100		5 110413
61.	<ul> <li>[52/76] When an at job runs, the current working</li> <li>a. the directory with the name /home</li> <li>b. the current directory that was in use when the at</li> <li>c. the directory with the name /root</li> <li>d. the system ROOT directory</li> <li>e. the HOME directory of the user who created the j</li> </ul>	job was created
62.	2. [52/76] Display all the names in the current director	ry that are exactly three
	digits long (and no other names):	
		[0-9][0-9][0-9]
	c. echo ??? d. echo e. echo [?][?][?]	[0-9,0-9,0-9]
63.		lowing asso lines will
05.	match this statement: <b>case</b> "\$work" in	lowing case lines will
	a. (*yup echo yes ;;	
	b. (*payup*) echo yes ;;	
	<pre>c. [payup] ) echo yes ;;</pre>	
	<pre>d. * ) echo yes ;; e. ?payup? ) echo yes ;;</pre>	
64.		nes How many lines are
04.	in file c after this: cat a $b > c$ ; cat a $>>k$	
	a. 7 b. 12 c. 0 d.	
65.	5. [53/76] File a contains 2 lines. File b contains 3 li are in file c after this: ln a d ; ln d c ; c	
	a. 3 b. 0 c. 4 d.	2 <i>e</i> . 5
66.	5. [53/76] File a contains 3 lines. File b contains 4 li output on your screen by this: cat a ; echo a	
	a. 10 b. 2	<i>c</i> . <b>3</b> followed by <b>4</b>
	<i>d.</i> <b>4</b> <i>e.</i> <b>1</b> followed by <b>4</b>	
67.	touch 1 2 .a .b ; echo .*	your screen after this:
	aa .b	
	b. an error message from <b>echo</b> saying . * does not ca .b	exist
	d*	
	<i>e</i> . <b>1 2</b>	
68.	B. [53/76] To "throw away" (hide) standard error outp	ut of a command, use:
	•	>/dev/sda1
		>/dev/null

*e.* cmd 1>&2

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69. [53/76] What is the output of this 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 70. [53/76] Inside a shell script, which expands to the shell process ID? *b*. "\$\$" a. "\$?" c. "\$0" d. "\$#" e. "\$\*" 71. [54/76] A crontab time specification of 6 0 \* \* \* means at: a. 6:00am every business day and Saturday *b.* **12:06am** every day c. 6:00am every business day *d*. **6:00am** every day *e*. **12:06am** every business day 72. [54/76] Which command searches for the text **other-writable** inside the text files of last term's course notes? a. fgrep 'other-writable' oldnotes/\*.txt b. find oldnotes/\*.txt -name 'other-writable' c. find oldnotes/\*.txt -name '\*other-writable\*' d. fgrep oldnotes/\*.txt 'other-writable' e. find -name 'other-writable' oldnotes/\*.txt 73. [55/76] Given this **ls** -il long listing: 12 drwxr-xr-x 34 me me 56 Jan 1 1:00 dir How many subdirectories lie immediately under **dir**? b. 54 *a*. 56 c. 34 d. 32 e. 10

74. [55/76] If /bin/foo is a program that outputs mom and /usr/bin/foo is a program that outputs dad what would be the output on your screen of these two commands:

PATH=/etc:/bin/foo:/usr/bin/foo:/usr ; foo

- a. dad
- b. mom
- c. mom followed by dad
- *d*. **dad** followed by **mom**
- e. bash: foo: command not found

- 75. [55/76] 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: echo dir/\*
  a. dir/. dir/.. dir/.on dir/.tw dir/.th dir/.f.
  b. no output
  c. dir/.on dir/.tw dir/.th
  d. dir/\*
  e. dir/.f.
- 76. [55/76] In a directory containing one file named **dog**, what is the output on your screen after this: **2>/dev/null ls nosuchfile** 
  - a. 1s: nosuchfile: No such file or directory
  - *b.* no output
  - c. nosuchfile
  - d. dog
  - e. bash: 2>/dev/null: command not found
- 77. [55/76] If the line, **exit 3** is executed in a shell script, what is the result?
  - a. termination after sleeping for 3 seconds
  - b. termination with an exit status of 3
  - c. an invalid argument error message
  - *d*. the script breaks out of up to 3 levels of loops
  - e. termination with an exit status of 0
- 78. [56/76] Given my directory containing a file, which octal permissions allow me to access and append data to the file but not delete the file?
  - *a.* Directory: **500** File: **100** *b.* Directory: **600** File: **700**
  - *c*. Directory: **400** File: **400** *d*. Directory: **200** File: **200**
  - *e*. Directory: **100** File: **200**
- 79. [56/76] How do I search for the string **foo** in the text display output from the **man** command?
  - a. search foob. @fooc. /food. select "Search" in the menuc. find for
  - e. find foo

80. [56/76] If **/bin/bat** is a program that outputs **foo** and /usr/bin/bat is a program that outputs bar what would be the output on your screen of these two commands: PATH=/etc:/usr:/usr/bin:/bin ; bat a. foo b. bar followed by foo c. bar d bash: bat: command not found e. foo followed by bar 81. [56/76] In an empty directory, what is output on your screen by: mkdir -p 1/2/3 a/b/c; mv 1/2/3 a/b; find . -name 3 a. ./a/1/2/3 b. ./a/b/1/2/3 c. ./a/b/3 d. ./a/b/c/1/2/3e. ./a/b/2/3 82. [56/76] The **minimum** permissions you need to copy a file **foo** from directory **a** to directory **b** are: a. wx on a. wx on b. rw on foo b. wx on a, wx on b, none on foo c. x on a. wx on b. r on foo d. rx on a, wx on b, w on foo e. rwx on a. wx on b. none on foo 83. [56/76] Inside a shell script, which expands to the name of the script itself? a. "\$\*" h. "\$?" c. "\$0" d. "\$#" e. "\$@" 84. [57/76] How many arguments are passed to the command by the shell: \$ echo " 1 '2 3' 4 " 5 6 ' 7 "8 '9 >out d. 5 h. 3 a. 7 c. 6 e. 4 85. [57/76] How many lines are in the file **bar** after this: echo hi >x ; echo ho >>x ; cat x x >bar a. 1 b. 4 *c*. **0** d. 2 e. 6 86. [57/76] Display all 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] 87. [57/76] A pathname that is *not* an absolute pathname (after all shell expansions): a. /../dir b. /dir c. \$HOME/dir

88. [57/75] Which PATH setting is from the Standard Script Header in this course? a. PATH=/sh/bin:/usr/sh/bin b. PATH=/bin:/usr/bin c. PATH=/bin/sh:/usr/bin/sh d. PATH=/bind:/usr/bind e. PATH=/bin/sh:/sh/usr/bin 89. [57/76] Which command lists your pending at jobs? b. atqu a. atq c. at -qd. at -queue e. atqueue 90. [58/76] Can user emay in group greenpart append to ./foo? dr-xr-xr-x 2 root greenpart 4096 Oct 7 14:00 . -r-xrwxrwx 1 emay greenpart 123 Oct 4 14:05 foo a. No, because **emay** has no write permissions on **foo** b. No, because **emay** has no write permission on the directory c. Yes, because **emay** owns **foo** d. No, because execute permissions are not set for **emay** on **foo** e. No, because the directory is not accessible to **emay** 91. [58/76] 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 b. 8 a. 6 *c*. **1** d. 4 *e*. no output 92. [58/75] Given the pathname **a/b/c**, the *basename* of this pathname is: b. b/c d. a/b a. c c. a *e*. **b** 93. [58/76] If **foo** is a sub-directory that contains only the file **bar**, what happens after this: cp foo/bar ./foo/../me *a*. the directory **foo** is now empty b. there is a second copy of the file **bar** in directory **foo** c. the directory **foo** now contains only a file named **me** d. the command fails because the name ./foo/../me does not exist e. there is a second copy of the file **bar** in the file named **me** 94. [58/76] In an empty directory, how many arguments are passed to the **cat** command in this: date >a1 ; touch a2 ba ca ; cat a\* h. 3 *c*. **1** a. 2 d. none e. 4

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*e*. ~/dir

*d*. ./dir

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<ul> <li>95. [58/76] The minimum directory a to directory</li> <li>a. wx on a, wx on b, w</li> <li>b. wx on a, wx on b, r</li> <li>c. rwx on a, wx on b, r</li> <li>d. wx on a, wx on b, no</li> <li>e. rwx on a, wx on b, no</li> </ul>	on foo on foo rw on foo one on foo	o from	on directory <b>/b</b> , how pathname <b>/b/new</b> ? a. ln -s /a/foo c. ln /a/foo /k e. ln /a/new /k	b/new b. ln / b/new d. ln - b/foo	a/foo to the new /b/new /a/foo -s /b/new /a/foo
96. [58/76] What is the ou echo one >x ; a. one	tput on your screen after this: <b>ln x y ; echo two &gt;&gt;y ; so</b> <i>b</i> . <b>two</b> followed by or		equivalent to the file <i>a.</i> passwd/. <i>c.</i> /etc/passw	wd/. d/	tc/passwd /etc/passwd
15rwxrwx 2	<i>d.</i> no output o bout this output from <b>ls -ild foo b</b> <b>me me 3 Jan 1 1:00 foo</b> <b>me me 3 Jan 1 1:00 bar</b>	ar	mkdir -p 1/2/3	y directory, what is output on 3 <b>a/b/c</b> ; <b>mv 1/2 a/b</b> <i>b.</i> ./ <b>a/b/3</b>	; findname 3
<ul> <li>c. foo and bar are two</li> <li>d. foo and bar are name.</li> <li>this output is not post</li> </ul>	ave three names (six names total) o of three names for the same thing mes for different things	-	<ul> <li>104. [59/75] User bob i</li> <li>d-w-rwx-wx 2 b</li> <li>-r-xrwxrwx 1 p</li> <li>a. pat can rename b</li> <li>bob can access a</li> <li>c. pat can access a</li> <li>d. bob can list name</li> </ul>	is in groups <b>bg1</b> and <b>bg2</b> . U <b>bob ted 60 Jan 1 1:00</b> <b>bat bg2 0 Jan 1 1:00</b> the file and write on the file and write on the file	) foo
drwxrw-rwx 2 roo -rw-rw-r 1 ema	y in group greenpart append to ./fo t greenpart 4096 Oct 7 14:00 y greenpart 123 Oct 4 14:09 has write permissions on foo	0.	105. [59/76] Which com a/.bashrc so b/.bashrc c. source ./.ba d. source ./.ba e/.bash_prof	ashrc ash_profile	bash_profile file?
<ul><li>c. Yes, because green</li><li>d. No, because execute</li></ul>	<b>part</b> has write permissions on <b>foo</b> permissions are not set for <b>emay</b> on <b>foc</b> ctory is not accessible to <b>emay</b>	þ	106. [60/75] Can user en drwxxrwx 2 r	may in group greenpart ap coot greenpart 4096 C amay greenpart 123 C	Oct 7 14:00 .
drwxrw-r-x 2 roo -rwx-wx-wx 1 emay a. Yes, because emay b b. Yes, because emay c c. No, because the direc d. No, because the direc	y in group greenpart copy ./foo to to t greenpart 4096 Oct 7 14:00 y greenpart 123 Oct 4 14:09 has write permissions on foo bwns foo ctory is not accessible to emay ctory has no write permissions for others is no read permissions for emay	0 . 5 foo	<ul><li>a. No, because exec</li><li>b. No, because the c</li><li>c. No, because gre</li></ul>	the permissions are not set for directory is not accessible to <b>e</b> <b>enpart</b> has no write permissions on <b>f</b>	r <b>emay</b> on <b>foo</b> <b>may</b> sions on <b>foo</b>

180 M/C	Questions
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3 hours

107. [60/76] What displays on your screen given this command: date >date ; pwd >pwd ; head date | tail pwd a. nothing displays because **tail** ignores the pipe b. tail reads the pipe and the pwd and displays both together c. only the **pwd** file displays because **tail** ignores the pipe d. only the **date** file displays because **tail** ignores the pipe e. head displays the date and tail displays the pwd 108. [60/76] What is the link count of directory **a** after these successful commands? mkdir a ; mkdir a/b ; mkdir a/c ; mkdir a/b/c b. 4 a. 1 c. 3 d. 5 e. 2 109. [60/76] What permissions are given to **newdir** after this: umask 745 ; mkdir newdir b. ----w---w-a. rwx-wx-w-С. ----wx-w*d.* **rw-r--r**-e. rwxr--r-x 110. [60/76] In a shell **case** structure, the **case** segment that will GLOB match the text **x**, **y**, or **z**, is coded as a. x y z ) b.  $\mathbf{x} | \mathbf{y} | \mathbf{z}$ )  $c. \mathbf{x/y/z}$ )  $d. \mathbf{x}, \mathbf{y}, \mathbf{z}$ )  $e. \mathbf{x}:\mathbf{y}:\mathbf{z}$ ) 111. [61/76] Can user emay in group greenpart rename ./foo to bar? d----wx--- 2 root greenpart 4096 Oct 7 14:00 . ----- 1 emay greenpart 123 Oct 4 14:05 foo a. Yes, because **emay** owns **foo** b. No, because the directory has no permissions for other users c. No, because **emay** cannot read the directory d. No, because **emay** has no permissions on **foo** e. Yes, because **emay**'s group matches the group writable directory 112. [61/76] If a shell GLOB pattern fails to match anything, what happens by default? The shell: a. gives an error message and does not execute b. removes the pattern and passes nothing c. passes the pattern unchanged to the command *d*. returns the closest match to the pattern e. gives a warning message but continues

113.	<ul> <li>[61/76] If foo is a sub-directory that contains only the file bar, what happens after this: mv ./foo/bar foo//me</li> <li>a. there is a second copy of the file bar in the file named me</li> <li>b. the directory foo is now empty</li> <li>c. the command fails because the name me does not exist</li> <li>d. the command fails because the name foo//me does not exist</li> <li>e. the directory foo now contains only a file named me</li> </ul>			
114.	. [61/76] The <b>minimum</b> permissions you r directory <b>a</b> are:	need to append to a file <b>foo</b> in		
		. wx on a, none on foo . wx on a, w on foo		
115.	. [61/76] The <b>minimum</b> permissions you r directory <b>a</b> are:	need to delete a file <b>foo</b> from		
	,	. wx on a, r on foo . wx on a, w on foo		
116.	. [61/75] User bob is in groups bg1 and 1 dr-xrw-rwx 2 pat bg1 60 Jan 1 -rwxrwxrwx 1 pat ted 0 Jan 1	1:00 foo		
	<ul> <li>a. bob can access and write on the file</li> <li>b. pat can rename the file</li> <li>c. bob can list names in the directory</li> <li>d. bob can rename the file</li> <li>e. pat can create a new file in the director</li> </ul>	ry		
117.	. [61/76] When a personal <b>crontab</b> job is set to:	runs, the current working directory		
	<ul> <li>a. the system ROOT directory</li> <li>b. the current directory that was in use wh</li> <li>c. the HOME directory of the user who cr</li> <li>d. the directory with the name /home</li> <li>e. the directory with the name /root</li> </ul>			
118.	<ul> <li>[62/76] File a contains 2 lines. File b co output on your screen by this: cat b  </li> <li>a. 3 followed by 2 b. 5</li> <li>d. 2 followed by 3 e. 3</li> </ul>			
119.	. [62/76] Give the minimum number of dir /a/b/c	ectories in this pathname:		
	a. 3 b. 2 c. 4	d. 5 e. 1		

<ul> <li>120. [62/76] The minimum permissions you need to link a file foo from directory a to directory b are:</li> <li>a. rwx on a, wx on b, rw on foo</li> <li>b. rwx on a, wx on b, none on foo</li> <li>c. wx on a, wx on b, w on foo</li> <li>d. x on a, wx on b, none on foo</li> <li>e. wx on a, wx on b, ron foo</li> </ul>	<ul> <li>125. [63/76] If files occupy one disk block, how many disk blocks will the system free up if I remove these four file names:</li> <li>111 -rw-rr 2 me me 100 Jan 1 1:00 a</li> <li>222 -rw-rr 3 me me 100 Jan 1 1:00 b</li> <li>222 -rw-rr 3 me me 100 Jan 1 1:00 c</li> <li>222 -rw-rr 3 me me 100 Jan 1 1:00 d</li> <li>a. 0 b. 10 c. 3 d. 1 e. 2</li> </ul>
<ul> <li>121. [62/76] User bob is in groups bg1 and bg2. User pat is in group pgg.</li> <li>drwx 2 pat bg2 60 Jan 1 1:00 foo</li> <li>-rw- 1 pat ted 0 Jan 1 1:00 foo/bar</li> <li>a. pat can rename the file</li> <li>b. bob can access and write on the file</li> <li>c. bob can rename the file</li> <li>d. pat can create a new file in the directory</li> <li>e. bob can list names in the directory</li> </ul>	<ul> <li>126. [63/75] If files occupy one disk block, how many disk blocks will the system free up if I remove these four file names:</li> <li>111 -rw-rr- 2 me me 100 Jan 1 1:00 a</li> <li>111 -rw-rr- 2 me me 100 Jan 1 1:00 b</li> <li>222 -rw-rr- 3 me me 100 Jan 1 1:00 c</li> <li>222 -rw-rr- 3 me me 100 Jan 1 1:00 d</li> <li>a. 3 b. 4 c. 2 d. 1 e. 8</li> <li>127. [63/76] In a manual page SYNOPSIS section, ellipsis (three dots) ()</li> </ul>
<ul> <li>122. [62/76] User bob is in groups bg1 and bg2. User pat is in group pgg.</li> <li>drwx 2 pat bg2 60 Jan 1 1:00 foo</li> <li>-rw-rw-r-x 1 pat ted 0 Jan 1 1:00 foo/bar</li> <li>a. pat can rename the file</li> <li>b. bob can rename the file</li> </ul>	<ul> <li>mean:</li> <li>a. a hidden directory</li> <li>b. no special meaning</li> <li>c. something that is optional</li> <li>e. the parent directory</li> <li>128. [63/76] User bob is in groups bg1 and bg2. User pat is in group pgg.</li> </ul>
<ul> <li>c. bob can access and write on the file</li> <li>d. pat can create a new file in the directory</li> <li>e. bob can list names in the directory</li> </ul>	dr-xrwxx 2 pat pgg 60 Jan 1 1:00 foo wr-x 1 bob bg2 0 Jan 1 1:00 foo/bar a. pat can rename the file
<ul> <li>123. [62/75] User bob is in groups bg1 and bg2. User pat is in group pgg.</li> <li>d-wxw- 2 pat pgg 60 Jan 1 1:00 foo</li> <li>-rwxrwxr-x 1 bob bg2 0 Jan 1 1:00 foo/bar</li> <li>a. pat can rename the file</li> </ul>	<ul> <li>bob can create a new file in the directory</li> <li>c. bob can list names in the directory</li> <li>d. pat can access and write on the file</li> <li>e. bob can access and write on the file</li> </ul>
<ul> <li>b. pat can access and write on the file</li> <li>c. bob can access and write on the file</li> <li>d. bob can list names in the directory</li> <li>e. bob can create a new file in the directory</li> <li>124. [62/75] Output only lines 5-10 of the file named foo:</li> </ul>	<ul> <li>129. [63/76] User bob is in groups bg1 and bg2. User pat is in group pgg.</li> <li>d-wxrwx-w- 2 pat ted 60 Jan 1 1:00 foo</li> <li>-r-xr-xrwx 1 pat bg1 0 Jan 1 1:00 foo/bar</li> <li>a. bob can list names in the directory</li> <li>b. pat can access and write on the file</li> </ul>
a. head -n 5 foo   tail -n 10 b. tail -n 15 foo   head -n 5 c. tail -n 10 foo   head -n 6	<ul> <li>c. pat can rename the file</li> <li>d. bob can create a new file in the directory</li> <li>e. bob can access and write on the file</li> </ul>
d. head -n 15 foo   tail -n 5 e. head -n 10 foo   tail -n 6	<ul> <li>130. [63/76] What command can you use to delete a directory that isn't empty?</li> <li>a. deltree -r dir</li> <li>b. rd -r dir</li> <li>c. del -r dir</li> <li>d. rm -r dir</li> <li>e. rmdir -r dir</li> </ul>

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131.	[63/76] What command a. showall d. psmine		buffer of log messages: c. dmesg	139.
132.	[63/76] Which cronta a. 13 54 * * * c. * * * 54 13 e. 54 13 * * *	b. 13 *	eutes at 13:54 every day? * * * 54 * 13 54	140.
133.	[63/75] Which option to contents? a1 bi	<b>1s</b> displays the director $c$ d		
134.	[64/76] Dereference the path: ln -s// a. /tmp/foo c. /tmp/a/b/foo e. /tmp/b/foo	a/./b//b/./foo	o/a/b/bar	141.
135.	[64/76] In an empty dir mkdir -p 1/2/3 a/ a/a/b/c/2/3 c/a/b/c/1/2 e/1/2/3		c ; findname 3 /b/c/3	142.
136.		ted 60 Jan 1 1:00 bg1 0 Jan 1 1:00 write on the file the directory ile write on the file	foo	143.
137.	[64/75] If a script name for i do and the script is executed ./bar a ' b d how many times will the a. 6 iterations d. 7 iterations	using this command line 'ef "gh "		
138.	[64/76] Which commar a. ls -d dir d. du -s dir	d displays a sum total of b. df -t dir e. tot -d dir	disk blocks? c. ls -s dir	

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	<ul> <li>a file, which octal permissions allow</li> <li>b b. Directory: 300 File: 500</li> <li>c d. Directory: 500 File: 500</li> </ul>
<ul> <li>140. [65/76] In a manual page SYNG</li> <li>a. an arithmetic expression</li> <li>b. something that is optional</li> <li>c. something that is repeated</li> <li>d. no special meaning</li> <li>e. a GLOB pattern matching a li</li> </ul>	<b>OPSIS</b> section, square brackets ([]) mean:
<ul> <li>141. [65/76] User bob is in groups I drr-x-w- 2 bob pgg 6 -rwxrwxr-x 1 bob bg2</li> <li>a. bob can create a new file in th</li> <li>b. pat can access and write on t</li> <li>c. bob can access and write on t</li> <li>d. bob can list names in the direct</li> <li>e. pat can rename the file</li> </ul>	<b>0 Jan 1 1:00 foo/bar</b> he directory the file the file
<ul> <li>142. [65/75] User bob is in groups I</li> <li>d-wxr-xrw- 2 bob pgg 6</li> <li>-r-xrwxr-x 1 bob bg1</li> <li>a. pat can access and write on t</li> <li>bob can list names in the direction of the construction of the cons</li></ul>	<b>0 Jan 1 1:00 foo/bar</b> the file ectory the file
<ul> <li>143. [65/76] User bob is in groups I</li> <li>dxx 2 pat pgg 6</li> <li>-r-xrwx-w- 1 bob bg1</li> <li>a. pat can rename the file</li> <li>b. pat can access and write on t</li> <li>c. bob can create a new file in tI</li> <li>d. bob can access and write on t</li> <li>e. bob can list names in the direct</li> </ul>	<b>0 Jan 1 1:00 foo/bar</b> the file he directory the file

- 144. [65/76] User bob is in groups bg1 and bg2. User pat is in group pgg. d--x--xrw- 2 bob pgg 60 Jan 1 1:00 foo -r-xrwx-w- 1 bob bg2 0 Jan 1 1:00 foo/bar a. pat can access and write on the file b. **bob** can list names in the directory c. **bob** can create a new file in the directory d. **bob** can access and write on the file *e*. **pat** can rename the file 145. [65/76] What would be the output of the following command line: echo a b c d e | awk '{print \$3}' b. c a. c d e c. abc e. 3 d. \$3 146. [65/76] Which command line correctly compares the two numbers and prints **OK**? a. if 4 > 3; then echo OK; fi b. if 4 >> 3; then echo OK; fi c. if [4 > 3]; then echo OK; fi d. if \$4 -qt \$3 ; then echo OK ; fi e. if [ 4 -gt 3 ] ; then echo OK ; fi 147. [65/76] A shell script first line that would run the program **sh** from the **bin** directory to read the script file using one option: h #/bin/sh -u *a.* **!#**/**sh**/**bin** –**u** c. #!/bin/sh -u *d.* **#!/sh/bin** -u *e*. **!**#/bin/sh -u 148. [66/76] Can user emay in group greenpart remove ./foo? d----wx--- 2 root greenpart 4096 Oct 7 14:00 . ----- 1 emay greenpart 123 Oct 4 14:05 foo a. No, because the directory has no permissions for other users b. No, because **emay** has no permissions on **foo** c. No, because the directory is not accessible to **emay** d. Yes, because **emay**'s group matches the group writable directory
  - e. Yes, because emay owns foo
- 149. [66/76] How many arguments does the shell pass to this **echo** command: \$ echo one two three >four five

b. 2 d. 4 c. 5 a. 3 e. 1 180 M/C Questions -24-150. [66/75] To have a user-defined alias in all your **bash** shells: a. define the alias in the file .bash\_history b. create the alias and then type "save" to save it c. define the alias in the file .bashrc d. create the alias and then type "newalias" to save it e. define the alias in the file **/etc/alias** 151. [66/76] In an empty directory, what is output on your screen by: mkdir -p 1/2/3 a/b/c ; mv 1 a/b ; find . -name 3 b. ./a/b/c/1/2a. ./a/b/1/2/3 c. ./a/b/1 d. ./a/1 e. ./a/b/c/1/2/3 152. [66/76] Under what directory are system log files usually stored? a. /log/var b. /usr/bin c. /etc/log d. /etc/passwd e. /var/log 153. [66/76] User bob is in groups bg1 and bg2. User pat is in group pgg. dr-xrwx-wx 2 pat pgg 60 Jan 1 1:00 foo -r-xrwxr-x 1 bob bg2 0 Jan 1 1:00 foo/bar *a*. **bob** can list names in the directory b. **bob** can access and write on the file c. pat can access and write on the file *d*. **pat** can rename the file *e*. **bob** can create a new file in the directory 154. [66/76] User bob is in groups bg1 and bg2. User pat is in group pgg. d-wx---rw- 2 bob ted 60 Jan 1 1:00 foo ----rwxrwx 1 bob bg2 0 Jan 1 1:00 foo/bar *a*. **bob** can list names in the directory b. **bob** can access and write on the file c. **bob** can create a new file in the directory *d*. **pat** can rename the file e. pat can access and write on the file 155. [66/76] User **bob** is in groups **bg1** and **bg2**. User **pat** is in group **pgq**. d--xrwx--x 2 bob ted 60 Jan 1 1:00 foo ----rw--w- 1 bob bg1 0 Jan 1 1:00 foo/bar a. pat can access and write on the file b. pat can rename the file c. **bob** can list names in the directory *d*. **bob** can create a new file in the directory *e*. **bob** can access and write on the file

156. [66/76] User bob is in groups bg1 and bg2. User pat is in group pgg.

3 hours 162. [67/75] User bob is in groups bg1 and bg2. User pat is in group pgg. dr-x-wx--- 2 pat bg1 60 Jan 1 1:00 foo -rwxrwxr-x 1 pat ted 0 Jan 1 1:00 foo/bar

d--x-wx--- 2 bob pgg 60 Jan 1 1:00 foo -r-x-w-r-x 1 bob bg1 0 Jan 1 1:00 foo/bar *a*. **bob** can list names in the directory b. **bob** can create a new file in the directory c. **bob** can access and write on the file d. pat can access and write on the file *e*. **pat** can rename the file 157. [66/76] A shell script is executed as follows: ./script "a b c" "d e" f Inside the script is the line: **echo** "\$2" What is the output on your screen from this line? b. "\$2" a. "b" *c*. **b** d. d.e e. \$2 158. [66/76] Inside a shell script, which expands to the number of script arguments? a. "\$\*" *c*. "\$#" b. "\$?" e. "\$0" d. "\$\$" 159. [67/76] Can user emay in group greenpart remove ./foo? drwxr-xrwx 2 root greenpart 4096 Oct 7 14:00 . -rwxrwxrwx 1 emay greenpart 123 Oct 4 14:05 foo a. No, because the directory is not accessible to **emay** b. No, because the directory has no write permissions for **emay** c. Yes, because **emay** has full permissions on **foo** d. Yes, because **emay** owns **foo** e. Yes, because **emay** matches the writable other permissions 160. [67/76] If you type the command **sleep** 60, which *CTRL* key will interrupt it and take you back to the command prompt? a. **^**R h. ^I C. ^II d. ^D e. ^C 161. [67/76] Which of the following signals is strongest (cannot be handled or ignored)? ------SIGHUP

а.	SIGKILL	D.	SIGTERM	С.	S
d.	SIGSUSP	е.	SIGINT		

- *a*. **bob** can list names in the directory b. **pat** can create a new file in the directory *c*. **pat** can rename the file *d*. **bob** can create a new file in the directory e. **bob** can access and write on the file 163. [67/76] What value **umask** gives a new directory permissions rw--w---x? a. **421** h 432 c. 211 *d.* 621 e. 156 164. [68/76] If cow is a sub-directory that contains only the file dog, what happens after this: mv cow/dog cow/././cat *a*. the directory **cow** is now empty b. the command fails because the name **cat** does not exist c. the command fails because the name **cow/././cat** does not exist d. there is a second copy of the file **dog** in the file named **cat** e. the directory **cow** now contains only a file named **cat** 165. [68/76] If **foo** is a sub-directory that contains only the file **bar**, what happens after this: **mv foo/./bar foo/././me** a. the command fails because the name **me** does not exist b. the command fails because the name **foo/./bar** does not exist c. there is a second copy of the file **bar** in the file named **me** *d*. the directory **foo** is now empty e. the directory **foo** now contains only a file named **me** 166. [68/76] User bob is in groups bg1 and bg2. User pat is in group pgg. dr-x-wx--x 2 bob ted 60 Jan 1 1:00 foo -r-x-w-r-x 1 bob bg1 0 Jan 1 1:00 foo/bar *a*. **bob** can create a new file in the directory
  - *b*, **bob** can access and write on the file
  - c. **bob** can list names in the directory
  - *d*. **pat** can rename the file
  - e. pat can access and write on the file

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167.	[69/76 <b>dr-xr</b>	-x-w-	2 bob	pgg	<b>f</b> 60	Jar	1 <sup>1</sup>	1:0	)0 fo	0	0	nb <b>baa</b>	•
	-r-xr	wxr-x	1 bob	bg1	. 0	Jar	1 1	1:0	00 fo	o/ba	ar		
		can crea			in the	dire	ctory						
	-	can rena											
		can list				•							
	-	can acce											
168	[69/75						nd <b>b</b> e	<b>~</b> ?	I leer 🖛	st id	in arou	in ngg	
100.		- <b>xx</b>									s in giot	up <b>pgg</b>	•
		-xrwx									ar		
	a. pat	can acce	ess and	write	on the	e file							
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		can acco											
160						•		d:	at a wr y 9				
109.	[69/76	j what i	s the fin <i>b</i> . <b>2</b>	ik cou		an er <b>4</b>	прту	aire	d. 0		0	1	
170	a. 3	- TC C1	o. <u>–</u>			_	1					. 1	
170.	[70/76 system	free up if							iy disk	bloc	KS WIII I	ine	
		rw-r							1:00	a			
		rw-r											
		rw-r											
		rw-r		me			Jan	1		d		•	
	a. 1		b. <b>2</b>			3			d. <b>4</b>			. 0	
171.	[70/76								ıy disk	bloc	ks will t	the	
		free up if <b>rw-r</b>							1.00	а			
		rw-r											
	444 -	rw-r	r 3	me	me :	100	Jan	1	1:00	С			
	444 -	rw-r	r 3	me	me :	100	Jan	1		d			
	а. З		b. <b>2</b>		С.	0			d. 1		e	4	
172.	[70/76												
		bin/	/usr/	/.	./et	tc/.						/./bai	c
	a. /li	-	/h				-	-	b/bi	.n/ba	ar		
	c. /11 e. /et	b/usr/ c/bar	bar				a.	/ba	ır				
	. / EL												

173. [70/76] The **minimum** permissions you need to read a file **foo** in directory **a** are: b. rwx on a. rw on foo a. wx on a, w on foo c. wx on a, none on foo d. **x** on **a**, **r** on **foo** e. rwx on a. none on foo 174. [70/76] User bob is in groups bg1 and bg2. User pat is in group pgg. dr-x-wx--x 2 bob ted 60 Jan 1 1:00 foo -r-xr-xrwx 1 pat bg1 0 Jan 1 1:00 foo/bar a. pat can access and write on the file b. **bob** can list names in the directory c. **bob** can create a new file in the directory *d*. **pat** can rename the file *e*. **bob** can access and write on the file 175. [70/76] User bob is in groups bg1 and bg2. User pat is in group pgg. d-wx-w-rwx 2 pat bg1 60 Jan 1 1:00 foo -rwxrwxrwx 1 pat ted 0 Jan 1 1:00 foo/bar *a*. **bob** can rename the file b. **pat** can create a new file in the directory c. **bob** can list names in the directory d. **bob** can access and write on the file *e*. **bob** can create a new file in the directory 176. [70/76] User bob is in groups bg1 and bg2. User pat is in group pgg. d-wx-w-rwx 2 pat bg2 60 Jan 1 1:00 foo -rwxrwxrwx 1 pat ted 0 Jan 1 1:00 foo/bar a. **bob** can list names in the directory *b*. **bob** can rename the file c. **bob** can create a new file in the directory *d*. **pat** can rename the file *e*. **bob** can access and write on the file 177. [70/76] Display all the non-hidden names in the current directory that contain the case-insensitive word **hi** (and no other names): a. echo \*[hiHihIHI]\* b. echo \*(hi,Hi,hI,HI)\* c. echo [hiHihIHI] *d.* echo \*[Hh][Ii]\* e. echo ?[hiHihIHI]? 178. [71/76] What numeric **chmod** permissions would you use to change the permissions on a file to **r**-**xr**--**rw**-? a. 122 b. 546 *c*. 305 d. 212 e. 513

180 M/C Questions	-29-	3 hours	180 M/C Questions	-30-
179. [71/75] Did you read a. mis (sey - eseugu c. jes (yes - esperan e. sim (yes - portugu	nto) d. sej (	structions on page one? (yes - polish) (sey - otnarepse)	This page intentionally left blank.	
<ul> <li>180. [73/76] How do you</li> <li><i>a.</i> /foo</li> <li><i>d.</i> foo/.</li> </ul>	execute the program foo in b. \$HOME/foo e/foo	the current directory?		