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Read all Use you Put the t Fill in th Manage	the words of these instructions and both sides refull, unabbreviated name on the mark-sense for three-digit Test Version above into NO. OF QUE to bubbles with pencil only, no pen. Enter your your time. Answer questions you know, first. wer to the last question about reading all these	(back and front) of all pages. orm. Do not abbreviate your name. STIONS and NO. OF STUDENTS NAME, Test Version, and answers. One Answer per question.		a. 0 [27/69] If file lines are in file	b. 2 a contains 2 lin c after this con ; ln b e;	nmand line: cp d e >c	d. 5 ntains 3 lines, t	e. hen ho		
Use youPut the tFill in thManage	r full, unabbreviated name on the mark-sense for three-digit Test Version above into NO. OF QUE e bubbles with pencil only, no pen. Enter your your time. Answer questions you know, first.	orm. Do not abbreviate your name. STIONS and NO. OF STUDENTS NAME, Test Version, and answers. One Answer per question.		lines are in file o	c after this con	nmand line: cp d e >c	ntains 3 lines, t	hen ho	w many	
_	1			7. [27/69] If file a contains 2 lines, and file b contains 3 lines, then how mar lines are in file c after this command line: 1n a d; 1n b e; cp d e > c a. 4 b. 5 c. 2 d. 0 e. 3						
			lines are in file c after this command line: cat a b >c; cat a >>b; sort c b >c a							
	9] In an empty directory, how many words			<i>a</i> . 5	<i>b</i> . 8	c. 7	d. 12	e.	0	
<i>a.</i> 2	and line: echo 1 2 3 >a 4 ; mv a b. 4 c. 1	d. 0 e. 3	9.			what is the outpoor, what is the outpoor				
which	9] Given my directory dir and my file di permissions allow me to access and change file dir/foo but not delete the file?		a. 2 d. a	b. е.	no output 1	c. 0				
a. 10c. 30	0 on directory, 500 on file <i>b</i> . 500	b. 500 on directory, 500 on file b. 500 on directory, 500 on file d. 500 on directory, 600 on file								
	9] How many arguments are passed to the c f z " a 'b c' d " 1 2 ' g " h b. 5 c. 4			b. foo and bac. foo and ba	r are two of the	ree names for this r different files				
				d. foo and bae. this output is		ree names (six nar	nes total)			
which but no <i>a</i> . 30 <i>c</i> . 50	[25/69] Given my directory dir and my file dir/foo owned by me, which permissions allow me to delete the file dir/foo from the directory, but not change the content (data) in the file? a. 300 on directory, 300 on file b. 600 on directory, 500 on file c. 500 on directory, 500 on file d. 600 on directory, 200 on file e. 300 on directory, 400 on file			11. [32/69] In an empty directory, what is in file out after this commecho out >out; ls nosuchfile wc -1 >out a. nothing (empty file) b. nosuchfile c. out d. 1 e. 0						
	9] What type and permissions result from t mask 362; touch newfile; 1s	12. [32/69] What is in file c after these successful commands? echo A >a; ln a b; echo B >b; ln a c; rm a								
•••	xr-x bwxr-x-w- r ewxr	Cwxrww-		a. A followed bc. Be. nothing (em	ру В	<i>b</i> . A	such file (none			

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13. [32/68] What is the link count of directory **d** after these successful commands?

mkdir d d/a d/b d/c d/c/z; touch d/x d/y a, 4 b, 5 c, 6 d, 2 e, 3

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14. [33/69] What is true about this output from ls -il foo bar?

454 -rwxr-xr-x 3 me me 2 Dec 4 9:12 foo 456 -rwxr-xr-x 3 me me 2 Dec 4 9:12 bar

a. **foo** and **bar** each have two names (four names total)

b. foo and bar are two of three names for this file

c. this output is not possible

d. foo and bar are names for the same file

e. foo and bar each have three names (six names total)

15. [34/69] What is the link count of file **f** after these successful commands?

rm f; touch f; ln f b; cp f c cp b x; ln x y; ln b z; ln z a

a. 1 b. 3

c. 5

d. **4**

e. 2

16. [34/69] In an empty directory, what is the output on your screen after this command line: echo hi >a; mv a b; ls | wc -w

a. 2

b. **a**

c. no output

d. 0 e. 1

17. [36/69] What is the link count of file **f** after these successful commands?

rm f; touch f; ln fa; ln a b cp fc; ln cx; rm b; mv a b

a. **4**

b. 1

c. 3

d. 2

e. 0

18. [37/69] If my current directory is /bin, which of these pathnames is equivalent to the file name /bin/ls?

a. ./bin/ls

b. /ls

c. ../bin/ls/.

d. ls

e. /root/bin/ls

19. [37/69] What is the link count of file **f** after these successful commands?

rm f ; touch f ; ln f b ; cp f g

cp b a ; ln a d ; ln b c ; cp c g

a. **4**

b. 3

c. 1

d. 2

e. 5

20. [37/69] In an empty directory, what is the output on your screen of this command line: echo hi >foo >bar; cat foo

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a. hi >foo

b. cat: foo: No such file or directory

c. hi >foo >bar

d. hi

e. no output

21. [38/69] Which command line displays all the non-hidden names in the current directory that contain the letter **a** (and no others)?

a. echo [a]

b. echo *a*

c. echo a*

d. echo *a

e. echo ?a?

22. [40/69] If file a occupies one disk block, how many disk blocks are in use after this sequence of commands:

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

a. 3 blocks

b. 5 blocks

c. 1 block

d. 2 blocks

e. 4 blocks

23. [40/69] If my current working directory is /bar, which command copies the password file into directory /bar/me under the name foo?

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

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

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

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

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

24. [40/69] Which command line displays all the non-hidden names in the current directory that contain the case-insensitive word **go** (and no others)?

a. echo *[go]*

b. echo *[GgOo]*

c. echo ?[GgOo]?

d. echo *[go][GO]*

e. echo *[Gg][Oo]*

25. [41/69] Which command below removes *only* this four-character file name containing a special character (and no others): *foo

a. rm /*foo

b. rm .\/*foo

 $c. \text{ rm } \setminus \text{*foo}$

d. rm ?foo

e. rm *foo

26. [42/69] What is the output on your screen after this command line:

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

a. no output

- b. d/.aa d/.bb
- c. d/. d/.. d/.aa d/.bb
- d. **d**/

- e. d/*
- 27. [43/69] If my current directory is /etc, which of these pathnames is equivalent to the pathname /etc/x/y?
 - a. ../etc/./y
- b. ../etc/x/y
- c. ./etc/x/y

45 minutes

- d. ../x/y
- e. /x/y
- 28. [44/69] If I have a directory named **a/d**, which action would increase its *link count* by exactly one?
 - a. create a file named a/d2
 - b. create a hard link to directory **d** named **d2**
 - c. create a directory named **a/d2**
 - d. create a file named a/d/e
 - e. create a directory named a/d/e
- 29. [44/69] Given this **ls -il** long listing:

454 drwxr-xr-x 123 me me 456 Dec 4 9:12 dir How many subdirectories lie immediately under dir?

- *a.* 121
- b. 458
- *c*. **123**
- *d*. **456**
- e. **454**
- 30. [44/68] 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** | tail -3 | head -1
 - a. 8
- *b*. 9
- c. 1
- d. 2 2
- e. 8 8
- 31. [45/69] In an empty directory, what is the output on your screen after this command line: date >.foo >.bar; ls *
 - a. .foo .bar
 - b.foo .bar
 - c. an error message from **ls** saying * does not exist
 - d. *
 - e. no output
- 32. [45/69] What is the correct syntax to redirect both standard output and standard error into the same output file?
 - a. ls 1>out 2>1

b. ls 2>&1 >out

c. ls 2>1 >out

d. ls >out 2>&1

e. ls 1>out 2>out

- 33. [46/69] Which of these command line will make file **c** contain all of the content of file **a** followed by all of the content of file **b**?
 - a. ln a b >c
- b. echo a b >c

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c. cp a b >c

45 minutes

- d. cat a b >c
- e. mv a b >c
- 34. [47/69] If I am in directory named /home/me and dir is an empty sub-directory, what is true after this command line:

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

- a. the command fails because the path ./dir/../new does not exist
- b. the directory **dir** now contains only a file named **old**
- c. the command fails because the path ../me/old does not exist
- d. there is a second copy of the file **new** in the file named **old**
- e. the parent directory of dir now has a file named old in it
- 35. [47/69] If you type the command cat, which *CTRL* key will send an **EOF** and take you back to the command prompt?
 - a. ^C
- b. $\mathbf{\hat{E}}$
- c. ^I
- d. ^℧
- e. ^R
- 36. [47/69] What is true about this output from ls -il foo bar

454 -rwxr-xr-x 3 me me 2 Dec 4 9:12 foo

456 -rwxr-xr-x 3 me me 2 Dec 4 9:12 bar

- *a.* this output is not possible
- b. foo and bar are two of three names for this file
- c. foo and bar are names for the same file
- d. foo and bar each have two names (four names total)
- e. foo and bar are names for different files
- 37. [47/69] What type and permissions result from this command line:
 umask 156; mkdir newdir; ls -ld newdir
 - a. dr-x-w-rw-
- b. drw--w---
- c. d--xr-xrw-

- d. dr-x--x---
- e. drw--w---x
- 38. [47/69] In an empty directory, what is the output on your screen after this command line: echo hi >a; ls nosuchfile 2>/dev/null
 - a. ls: 2>/dev/null: No such file or directory
 - *b*. **a**
 - c. no output
 - d. ls: nosuchfile: No such file or directory
 - e. nosuchfile

39.	[47/69] If file a contains 2 lines, and file b contains	3 lines,	then	how many	y
	lines are output on your screen by this command line:	sort	a	head 1	b

a. 5

b. no output

c. 0

d. 3

e. 2

40. [49/69] If **foo** is a sub-directory that contains only the file **bar**, what happens after this command: **mv** ./**foo/bar foo/../moo**

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

41. [51/69] What is true about this output from ls -il foo bar 454 -rwxr-xr-x 2 me me 3 Dec 4 9:12 foo 454 -rwxr-xr-x 2 me me 3 Dec 4 9:12 bar

- a. this output is not possible
- b. foo and bar are names for the same file
- c. **foo** and **bar** each have two names (four names total)
- d. **foo** and **bar** are two of three names for this file
- e. foo and bar are names for different files

42. [51/69] How many words are in file out after this command line: echo one >two >three >out

a. **4**

b. 1

c. 0

d. 2

e. 3

43. [53/69] Which of these commands makes a file owned by me, also executable by me?

a. umask 100 f

b. chmod u+x f

c. chmod x=u f

d. chmod x+u f

e. umask 700 f

44. [54/69] If I am in directory named /home/me and mt is an empty sub-directory, what is true after this command line:

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

- a. the directory **mt** now contains two files
- b. the command fails because the path ./mt/../foo does not exist
- c. the directory **mt** is still empty
- d. the file named **foo** is now renamed to **bar**
- e. the directory mt now has a file named bar in it

45. [55/68] If **foo** is a sub-directory that contains only the file **bar**, what happens after this command: **mv foo/bar foo/././cat**

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

46. [59/69] If dir is a sub-directory that contains only the file bar, what happens after this command: mv dir/bar dir/foo

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

47. [61/69] In the output of **ls** -a, a dot (period) that *begins* any name signifies what?

a. the current directory

b. an unprintable character

c. a current file

d. a name that is hidden

e. the parent directory

48. [65/66] **Did you read ALL the words** of the test instructions on the first page?

a. Jes (Yes – Esperanto)

b. Tak (Yes - Polish)

c. Igen (Yes – Hungarian) e. Sim (Yes – Portuguese) d. Yes (Yes - English)

45 minutes