PRI	INT Name:	LAB Section:	0.	that contain the letter a (a	•	•		annes m	the current	directory
Tes	t Version: 587 One-Answer Multiple Choice	223 Questions - 0 of 0%		a. echo *a*		echo		С	. echo *	a
Read all the words of these instructions and both sides (back and front) of all pages. Put the three-digit Test Version above into NO. OF QUESTIONS and NO. OF STUDENTS Manage your time. Answer questions you know, first. One Answer per question.			9.	 d. echo [a] The password :x: in /et a. the encrypted password b. the account is locked c. the unencrypted password 	c/pas d is stor	ed in th	neans: ne shadow fi			
1.	What is the output on your screen after this command ling cd /home/ian; mkdir a; mkdir b; a. /home/ian/a b. /home/c. /home/ian/a/b d. /b	pwd	10.	 d. the password is locked e. the encrypted password What GRUB command wi without partition prefixes, 	l is "x "	n partitio	on prefix that	will pre	fix all file n	ames typed
	e. /home/ian/b			a. title (hd0,0)	c,g. / §	ji uD/	_		(hd0,0)	
2.	Which file contains a list of file systems to mount when la. /etc/grub.conf b. /var/s			c. kernel (hd0,0)e. root (hd0,0)			d. roc	t=(hd(0,0)	
	c. /etc/init.d d. /var/le. /etc/fstab	=	11.	What command will recur a. find / -user 99	sively f	ind all	$\it b$. gre	p -nar	ne 99 /	
3.	Which of the following command lines removes all the n directory that are exactly three letters (alphabetic) long (alphabetic)		10	c. ls -R 99 / e. ls -name 99 /	1.		d. use	rmod -	-name 99	/
	 a. rm [a-zA-Z][a-zA-Z][a-zA-Z] b. rm [3][3][3] c. rm [a-zA-Z,a-zA-Z,a-zA-Z] d. rm ??? 		12.	A "dangling symlink" is aa. to a parent directoryc. to a special device filee. to a directory	symlin	k:			t directory tent target	
4.	e. rm [azAZ][azAZ][azAZ]What is the link count of directory d after this set of suc mkdir d; mkdir d/a d/b; touch d/d		13.	If my current working directory /mr a. cp xxx//etc	nt/xx	x unde	r the name 3		opies the gr	oup file
	a. 2 b. 1 c. 3 d.	5 <i>e.</i> 4		b. cp//etc/./9	group	/xxx	:/ууу			
5.	What GRUB line do you modify to boot a machine single a. kernel b. boot d. initrd e. timeout	e-user? c. grub		c. cp ././etc/grownd. cp/mnt/./xxxe. cp ././xxx//et	//e	tc/gr	oup ./xx		/ Y	
6.	If the file bat contained the word foo, what would be of this two command sequence: PATH=/etc/passwd:/bin/ls:/bin/cat		14.	What command displays to a. groups d. gpasswd	b.	ps you grour mkgro	rint	c	. lstgro	ups
	 a. /bin/ls: bat: No such file or direct b. bat c. no output on screen d. foo e. bash: /bin/ls: command not found 	tory	15.	What is contained in the loa. the process ID of the cub. the cpu cost of the currous the first argument of the d. the command name of	urrent s ent sess e previo	hell sion, in ous con	dollars nmand line	2		
7.	What is the link count of file foo after this set of success rm foo; touch foo; ln foo bar; ln bcp bar a; ln ab; ln xc; cp cd a. 3 b. 5 c. 1 d.	par x		e. \$\$ is not a valid variab						

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-3-**PRACTICE** Ian! D. Allen – Fall 2012 Ian! D. Allen – Fall 2012 -4-PRACTICE

- 16. What is usually contained in the environment variable **\$HOME**?
 - a. the absolute path of your login home directory
 - b. the relative path of your login home directory
 - c. the absolute path of the system /home directory
 - d. the relative path of the system /home directory
 - e. the relative path of the ROOT directory
- 17. What command compares files line-by-line?
 - a. tar

- h. diff
- c. file

- d. compare
- e. linecmp
- 18. What command sets group administrator users?
 - a. usermod
- b. groupedit
- c. passwd

- d. gpasswd
- e. modgroup
- 19. In a directory that contains only the file **a**, what happens after this command:
 - a. an empty file named **b** is created
 - b. there is a second copy of the file **a** in the file named **b**
 - c. there is only the file named **b** in the directory now
 - d. the command fails because **a** is not a directory
 - e. the command fails because the name **b** does not exist
- 20. On a disk with seven partitions, give the correct partition names after you delete partition sda2:
 - a. sda1 sda2 sda3 sda4 sda6
 - b. sda1 sda2 sda3 sda4 sda6 sda7
 - c. sda1 sda2 sda3 sda4 sda5 sda6
 - d. sda1 sda3 sda4 sda5 sda6 sda7
 - e. sda1 sda2 sda3 sda4 sda5
- 21. Pick the correct order of operations:
 - a. mkfs, fdisk, mount
- b. mount, mkfs, fdisk
- c. mount, fdisk, mkfs
- d. mkfs, mount, fdisk
- e. fdisk, mkfs, mount
- 22. 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. . .1 .2
- c. an error message from echo saying .??* does not exist
- d. .??*
- *e*. **a b**

- 23. What command will show lines containing the name **root** inside all four account files under /etc:
 - a. ls 'root' /etc/{passwd,shadow,group,gpasswd}
 - b. fdisk -l 'root' /etc/{passwd,shadow,group,gpasswd}
 - c. du 'root' /etc/{passwd,shadow,group,gpasswd}
 - d. find 'root' /etc/{passwd,shadow,group,gpasswd}
 - e. grep 'root' /etc/{passwd,shadow,group,gpasswd}
- 24. What command will recursively find all pathnames in your home directory named foo:
 - a. grep -user 'foo' "\$HOME"
 - b. find "\$HOME" -name 'foo'
 - c. ls -R 'foo' "\$HOME"
 - d. du 'foo' "\$HOME"
 - e. grep 'foo' "\$HOME"
- 25. Which option to **ls** displays the directory itself and not its contents?
 - a. -R
- b. -d
- c. -i
- d. -1
- 26. What is the link count of directory **d** after this set of successful commands? mkdir d; mkdir d/a; mkdir d/a/b; mkdir d/a/c

 - a. 4 b. 5 c. 2 d. 3
- 27. 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. Permissions 300 on directory dir and 500 on file dir/foo.
 - b. Permissions 700 on directory dir and 200 on file dir/foo.
 - c. Permissions 600 on directory dir and 300 on file dir/foo.
 - d. Permissions 500 on directory dir and 500 on file dir/foo.
 - e. Permissions 600 on directory dir and 500 on file dir/foo.
- Which command line displays the mounted /home file system?
 - a. grep '/home' | mount
- b. mount /home | grep
- c. grep mount '/home'
- d. mount | grep '/home'
- e. grep '/home' mount
- 29. Pick the correct order of operations:
 - a. POST, BIOS, MBR, O/S boot
- b. MBR, POST, BIOS, O/S boot
- c. BIOS, MBR, POST, O/S boot
- d. POST, MBR, BIOS, O/S boot
- e. BIOS, POST, MBR, O/S boot
- 30. Regarding the -t type option, e.g. -t ext3:
 - a. you can usually omit the type when using mount
 - b. you must give the type when using mkswap
 - c. you must give the type when using **fdisk**
 - d. you can usually omit the type when using mkfs
 - e. you must give the type when using swapon

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- 31. What is the output on your screen of this two-command sequence if run in a directory containing 8 files with names that are all the numbers from 1 to 8 cow="*"; echo '\$cow' inclusive:
 - a. the file names 1 through 8, surrounded by quotes
 - b. 'Scow'
 - c. *
 - d. Scow
 - e. the file names 1 through 8
- 32. Under what directory are system configuration files usually stored?
 - a. /var/log/
- b. /etc

c. /log/var/

- d. /grub/boot/
- e. /boot/grub
- 33. If **foo** were a readable empty file, what would be the output on your screen of this two command sequence:

PATH=/etc/passwd:/bin/ls:/bin/cat; /bin/cat foo

- a. /bin/cat: foo: No such file or directory
- h. bash: /bin/cat: command not found
- c. bash: ls: command not found
- d. no output on screen
- e. bash: cat: command not found
- 34. How does system logging work under Unix/Linux?
 - a. processes copy logs from your \$HOME directory to the /var/spool directory
 - b. processes send messages to a central **syslog** program that writes log files
 - c. processes write log files into each user's **\$HOME** directory
 - d. processes send messages to the **init** process that inherits orphan processes
 - e. processes write log entries directly into the system log directory
- 35. On a disk with eight partitions, give the correct partition names after you delete partition **sda5**:
 - a. sda1 sda2 sda3 sda4 sda5 sda7 sda8
 - b. sda1 sda2 sda3 sda4 sda5 sda6
 - c. sda1 sda2 sda3 sda4 sda5 sda6 sda8
 - d. sda1 sda2 sda3 sda4 sda6 sda7 sda8
 - e. sda1 sda2 sda3 sda4 sda5 sda6 sda7
- 36. Given my directory dir and my file dir/foo owned by me, which permissions allow me to access and change or create new content (data) in the file dir/foo but not delete the file?
 - a. Permissions 200 on directory dir and 200 on file dir/foo.
 - b. Permissions 500 on directory dir and 100 on file dir/foo.
 - c. Permissions 600 on directory dir and 700 on file dir/foo.
 - d. Permissions 100 on directory dir and 200 on file dir/foo.
 - e. Permissions 400 on directory dir and 400 on file dir/foo.

- 37. If /bin/foo is a program that outputs mom and /usr/bin/foo is a program that outputs dad what would be the output on your screen of this two command sequence: PATH=/bin/foo:/usr/bin/foo:/usr; foo
 - a. mom followed by dad
 - b. dad
 - c. dad followed by mom
 - d. bash: foo: command not found
- 38. What command schedules other commands to run just *once* at some future date/time?
 - a. schedule
- h. at

c. chkconfig

d. run

- e. crontab
- 39. 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:

b. 7 7

c. 9

- d. 3 3
- e. 3
- 40. What is the output on your screen after this command line:

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

- a. dir/. dir/.. dir/.aa dir/.bb
- b. dir/.aa dir/.bb
- c. dir/*
- d. no output on screen
- e. dir/
- 41. If I am in my home directory named /home/me and mt is an empty sub-directory, what is true after this command line:

- a. the command fails because the path ./mt/../foo does not exist
- b. the directory **mt** now has a file named **bar** in it
- c. the directory **mt** now contains two files
- d. the directory **mt** is still empty
- e. there is a second copy of the file named **foo** in the file **bar**
- 42. Why is a journalling file system better than non-journalling?
 - a. uses less disk space to store the same files
 - b. supports more types of partitions
 - c. allows more than four primary partitions
 - d. contains more inodes for files and directories
 - e. faster file system check after system crash
- 43. Which is a list of signals in increasing order of strength?
 - a. HUP KILL TERM

b. HUP TERM KILL

c. TERM HUP KILL

d. TERM KILL HUP

e. KILL HUP TERM

a. 1 2

e. .*

file2?

a. hi

e. foo

a. runlevel

d. chmod

b. .foo .bar

c. foo

PRACTICE

- 44. If /bin/xxx is a program that outputs one and /usr/bin/xxx is a program that outputs two, what would be the output on your screen of this two command sequence: PATH=/usr:/usr/bin:/etc:/bin ; xxx
 - a. bash: xxx: command not found
 - b. one followed by two
 - c. two followed by one
 - d. two
 - e. one
- 45. If /bin/pig is a program that outputs xx and /usr/bin/pig is a program that outputs **foo** what would be the output on your screen of this two command sequence: PATH=/home:/bin:/dev:/usr/bin ; pig
 - a. bash: pig: command not found
 - b. **xx** followed by **foo**
 - c. foo
 - d. **foo** followed by **xx**
 - e. xx
- 46. Fedora 12 has **/boot** on its own, separate, first partition. Which of these is the correct GRUB legacy path to its config file?
 - a. (hd0,1)/grub.conf
 - b. (hd0,0)/boot/grub/grub.conf
 - c. (hd0,1)/boot/grub/grub.conf
 - d. (hd0,0)/grub/grub.conf
 - e. (hd0,0)/grub.conf
- 47. What is contained in the /etc/fstab file?
 - a. a list of currently mounted file systems
 - b. a list of file system tables used by the adduser command
 - c. a list of file systems to mount when booting the system
 - d. a list of file system tables used to identify partition types
 - e. a list of file system tables used by the usermod command
- 48. What command shows all partition names and System IDs on the fifth disk:
 - a. find -1 /dev/sd5
- b. find -1 /dev/sde
- c. fdisk -1 /dev/sde
- d. mkfs -1 /dev/sd5e
- e. mount -1 /dev/sd5e
- 49. Rewrite

/home/me/../you/../etc/../home/me/../you/../me/../foo as a simplified absolute path:

a. /foo

b. /home/you/foo

c. /etc/foo

d. /home/me/foo

e. /home/foo

- c. **ntfs** file system e. data

 - 56. Which command line activates an existing swap partition?
 - a. mkswap device

a. ext3 file system

b. swapon device

d. **vfat** file system

c. swapon -s device

b. **foo** followed by **hi**

d. hi followed by foo

d. mount -s device

e. mkfs -s device

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

touch 1 2 .foo .bar ; echo .*

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

a. RPM handles RPM files and YUM handles DEB files

b. RPM is more high-level than YUM and can handle dependencies

d. YUM is more high-level than RPM and can handle dependencies

d----wx--- 2 root starfleet 4096 Oct 7 14:00 .

c. Yes, because **kirk**'s group matches the group writable directory

e. No, because the directory has no permissions for other users

c. RPM is more high-level than YUM, but cannot handle dependencies

e. YUM is more high-level than RPM, but cannot handle dependencies

52. Given the following, can user kirk in group starfleet rename ./file1 to

----- 1 kirk starfleet 123 Oct 4 14:05 file1

53. If /bin/bat is a program that outputs foo and /usr/bin/bat is a program

h. telinit

55. When you show the type of file system inside an unmounted partition, what is

e. chsh

that outputs hi what would be the output on your screen of this two command

51. How do the package managers YUM and RPM differ?

a. Yes, because kirk owns file1

b. No, because **kirk** cannot read the directory

c. bash: bat: command not found

54. Which command is used to change run levels?

displayed for a new, empty partition?

d. No, because kirk has no permissions on file1

sequence: PATH=/usr:/usr/bin:/bin ; bat

c. chkconfig

b. **ext2** file system (the default)

57. What permissions are given to **newdir** after this command line: umask 516; mkdir newdir

a. r-x--xrw-

b. -w-r-xrw-

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d. -w-rw----

e. --xr-x---

58. What is true about this output from ls -il foo bar

23 -r-x---- 2 bin bin 3 Jul 31 12:33 foo

23 -r-x---- 2 bin bin 3 Jul 31 12:33 bar

a. this output is not possible

b. **foo** and **bar** are names for the same file

c. foo and bar are names for different files

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

e. foo and bar are two of three names for the same file

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

a. ../../etc/group/.

b. ../etc/group

c. group/. d. ./etc/group

e. /root/etc/group

60. What is true about this output from ls -il foo bar?

23 -r-x---- 2 bin bin 3 Jul 31 12:33 foo

23 -rwxrwxrwx 2 adm adm 3 Nov 1 00:01 bar

a. foo and bar are names for different files

b. **foo** and **bar** are two of three names for the same 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)

61. Which command line makes pathnames /usr/local/bin and /usr/bin lead to the same directory?

a. ln -s . /usr/local

b. touch /usr/local

c. mkdir /usr/local

d. rmdir /usr/local

e. ln . /usr/local

62. Which command can unmount a single mounted file system?

a. umount

b. unmount.

c. swapoff

d. telinit

e. chkconfig

63. You enter this cp a/b c/

and get cp: a: No such file or directory because:

a. you forgot to specify the destination file name after c/

b. directory **c** does not exist

c. the command cp is not in your search PATH

d. directory a does not exist

e. pathname a exists but is a file, not a directory

64. If I mount one file system on directory /a and another file system on directory /b, how can I link the existing file /a/foo to the new pathname /b/new?

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a. ln -s /b/new /a/foo

b. ln /b/new /a/foo

c. ln -s /a/foo /b/new

d. ln /a/foo /b/new

e. ln /a/new /b/foo

65. What is true about this output from ls -il foo bar

15 -r-x---- 2 bin bin 3 Jul 31 12:33 foo

99 -r-x---- 2 bin bin 3 Jul 31 12:33 bar

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

b. this output is not possible

c. foo and bar are names for different files

d. **foo** and **bar** are two of three names for the same file

e. foo and bar are names for the same file

66. If /bin/foo is a program that outputs hi and /usr/bin/foo is a program that outputs mom what would be the output on your screen of this two command sequence: PATH=/etc:/usr/bin:/bin ; foo

a. mom

b. bash: foo: command not found

c. **hi** followed by **mom**

d. hi

e. mom followed by hi

67. What command creates an ext3 file system on the third partition of the first disk?

a. mkfs -t /dev/sda3 ext3

b. mkfs -t /dev/sd1c

c. mkfs ext3 /dev/sd3a

d. mkfs ext3 /dev/sda3

e. mkfs -t ext3 /dev/sda3

68. What command will show the type of file system inside an unmounted *partition*?

a. fdisk -s partition

b. mount | grep 'partition'

c. fdisk -1 partition

d. file partition

e. file -s partition

69. If you want a user-defined alias in all your **bash** shells, what do you do?

a. put the alias into the /etc/group file for next log in

b. create the alias and then type "save" to save it to all shells

c. put the alias into the **grub.conf** file for next log in

d. define the alias in my file \$HOME/.bashrc

e. put the alias into the /etc/passwd file for next log in

What command will change permissions on a directory to make the names in it readable by group members, but prevent group access to anything in the directory. Do not change any other permissions.

a. chmod g=r dir

b. chmod 040 dir

c. umask 030 dir

d. chown g=r dir

e. umask 040 dir

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71.	A "swap" partition					
	a. to keep large us					
	b. to keep a back-up copy of user home directories					
	c. to run programs larger than the available memory					
	d. to allow swapping a new disk for one with bad sectors					
	e. to store extra fil	es when the F	ROOT disk gets	full		
72.	Which GRUB com	mand line dis	plays the conte	nts of the file foo ?		
	a. cat (hd0,0	/foo	<i>b</i> .	p (hd0,0)/foo		
	c. ls (hd0,0)	/foo	d.	type (hd0,0)/		
	e. mount (hd0	,0)/foo				
73.	Which of these is the Unix/Linux device name of your third disk?					
	a. sda3	<i>b</i> .	sdc	c. hd(
	d. hd2	e.	sd3			
74.	What command finds files by name quickly using a database?					
	a grep	h.	locate	C. WOE		

- b. p (hd0,0)/foo d. type (hd0,0)/foo
- e name of your third disk? c. hd0.3
- ckly using a database? b. locate c. wget

d. ls e. find

- 75. When you log in, you have the permissions of:
 - a. one numeric user UID and one group GID
 - b. one numeric user UID and multiple group GIDs
 - c. multiple numeric user UIDs and multiple group GIDs
 - d. one numeric user UID and no group GIDs
 - e. multiple numeric user UIDs and one group GID
- 76. The correct syntax to assign to a shell variable is:
 - a. x = hello there b. x = "hello there" c. "x=hello there" d. x="hello there" e. x=hello there
- 77. If file **foo** occupies one disk block, how many disk blocks are in use after this sequence of commands:

cp foo bar ; ln bar one ; cp one two ; ln one xxx a. 2 *b*. 3 c. 4 d. 5 e. 1

78. Given the following, can user **kirk** in group **starfleet** copy ./file1 to file2?

drwx-wx--x 2 root starfleet 4096 Oct 7 14:00 . --wxrwxrwx 1 kirk starfleet 123 Oct 4 14:05 file1

- a. Yes, because kirk has write permissions on file1
- b. No, because **file1** has no read permissions for **kirk**
- c. Yes, because kirk owns file1
- d. No, because the directory has no write permissions for kirk
- e. No, because the directory is not readable by kirk

```
79. Given the following, can user kirk in group starfleet modify ./file1?
    dr-xr-xr-x 2 root starfleet 4096 Oct 7 14:00 .
    -rw-r-xr-x 1 kirk starfleet 123 Oct 4 14:05 file1
```

- a. No, because execute permissions are not set for kirk on file1
- b. No, because the directory is not accessible to kirk
- c. No, because **kirk** has no write permission on the directory
- d. Yes, because kirk has write permissions on file1
- e. Yes, because kirk owns file1
- 80. What is the link count of file **f** after this set of successful commands?

rm f; touch f; cp f x ln fa; ln x y; ln a z; ln x b a. 3 b. 6 c. 2 d. 4 e. 5

- 81. What is a Unix/Linux "tarball"?
 - a. a single compressed file containing one uncompressed file
 - b. a single-file that contains individual uncompressed files
 - c. a multi-file directory containing individual uncompressed files
 - d. a single-file that contains individual compressed files
 - e. a multi-file directory containing individual compressed files
- 82. What command will show the amount of free disk space in a partition?
 - a. find b. mount c. df d. fdisk e. 1s
- 83. The **minimum** permissions you need to remove a file from a directory are:
 - a. **x** permissions on the directory and **w** permissions on the file
 - b. w permissions on the directory, no permissions on the file
 - c. w permissions on the directory and w permissions on the file
 - d. wx permissions on the directory and w permissions on the file
 - e. wx permissions on the directory, no permissions on the file
- 84. What is the output on your screen of this two command sequence:
 - PATH=/bin/ls:/bin/cat:/bin/sh ; cat nosuchfile

- a. bash: cat: command not found
- b. cat: nosuchfile: No such file or directory
- c. ls: /bin/cat: command not found
- d. bash: /bin/ls: command not found
- e. bash: /bin/sh: No such file or directory
- 85. If you are in /etc and ls -1 shows a symbolic link bar -> /foo then dereference the absolute path of **bar** with no symbolic links:
 - a. /etc/foo
- b. /etc/bar/foo
- c. /etc/foo/bar

- d. /bar/foo
- e. /foo

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- 86. What does password :x: mean in /etc/passwd?
 - a. the password is locked
 - b. the unencrypted password is stored in the group file
 - c. the encrypted password is "x"
 - d. the account is locked
 - e. the encrypted password is stored in the shadow file
- 87. If /bin/xxx is a program that outputs one and /usr/bin/xxx is a program that outputs **two**, what would be the output on your screen of this two command sequence: PATH=/bin/xxx:/usr/bin/xxx:/etc/passwd ; xxx

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- a. one
- b. two
- c. two followed by one
- d. one followed by two
- e. bash: xxx: command not found
- 88. What is the correct syntax to redirect both standard output and standard error into the same output file?
 - a. date 2>&1 >out

- b. date 1>out 2>1
- c. date 2>1 >out d date >out 2>&1
- e. date 1>out 2>out
- 89. Which command line below does not show any lines from inside the file bat?
 - a. tail bat
- b. more bat
- c. head bat

- d. less bat
- e. 1s bat
- 90. GRUB boot menu entries are a paragraph of several lines. The keyword on the first line of the paragraph is always:
 - a. boot

b. kernel

c. timeout

- d. initrd
- e. title
- 91. To "throw away" (hide) standard error output of a command, use:
 - a. date 1>/dev/sda1

b. date 2>/dev/sda1

c. date 2>&1

d. date 2>/dev/null

- e. date 1>&2
- 92. When the shell exits, what happens to background jobs of the shell?
 - a. they keep running
 - b. they are made into foreground jobs
 - c. they are sent a termination signal
 - d. they exit
 - e. they are stopped
- 93. What high-level command fetches and tracks packages for Fedora or Red Hat?
 - a. apt-get
- b. tar

c. wget

d. yum

e. rpm

- 94. What is the purpose of a "swap" partition?
 - a. to allow swapping a new disk for one with bad sectors
 - b. to keep user home directories
 - c. to store extra files when the ROOT disk gets full
 - d. to keep a back-up copy of user home directories
 - e. to run programs larger than the available memory
- 95. Which command line below allows programs in the current directory to execute without preceding the names with ./?

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- a. \$PATH=/usr/bin:./bin
- b. PATH=/usr/bin:.:/bin
- c. PATH=/usr/bin/.:\$HOME
- d. PATH=./\$HOME:/usr/bin
- e. \$PATH=::\$HOME:/usr/bin
- 96. Which command below removes *only* this four-character file name containing a special character (and no others): *foo
 - a. rm ?foo
- b. rm *foo
- $c. \text{ rm ./} \text{$^{\circ}$}$

- d. rm .\/*foo
- e. rm /*foo
- 97. Give the GRUB device name for the third partition of the fourth disk:
 - a. (sdd,3)
- b. (hd2,3)
- c. (hd4,3)

- d. (hd3,2)
- e. (sd2,3)
- 98. What command creates an **ext3** file system on *device*?
 - a. file -t ext3 device
- b. mkfs -t ext3 device
- c. mount -t ext3 device
- d. swapon -t ext3 device
- e. fdisk -t ext3 device
- 99. Given the following, can user ian in group iangrp append to foobar? drwxrw-rwx 2 root iangrp 4096 Apr 23 11:30 .

-rw-rw-r-- 1 ian iangrp 1024 Apr 23 11:30 foobar

- a. No, because the directory is not accessible to ian
- b. Yes, because ian owns foobar
- c. Unable to determine based on the information presented
- d. No, because execute permissions are not set for ian on foobar
- e. Yes, because ian has write permissions on foobar
- 100. The **minimum** permissions you need to rename a file in a directory are:
 - a. w permissions on the directory, no permissions on the file
 - b. wx permissions on the directory, no permissions on the file
 - c. w permissions on the directory and w permissions on the file
 - d. \mathbf{x} permissions on the directory and \mathbf{w} permissions on the file
 - e. wx permissions on the directory and w permissions on the file

```
101. Given the following, can user kirk in group starfleet remove ./file1?
                                                                                      109. How do you execute the program foo in the current directory?
     d----wx--- 2 root starfleet 4096 Oct 7 14:00 .
                                                                                          a. /foo
                                                                                                                     b. ./foo
                                                                                                                                               c. $HOME/foo
     ----- 1 kirk starfleet 123 Oct 4 14:05 file1
                                                                                          d. foo/.
                                                                                                                     e. foo/
    a. No, because the directory has no permissions for other users
                                                                                     110. A Unix/Linux "tarball" is:
    b. No, because kirk has no permissions on file1
                                                                                          a. a single compressed file containing one uncompressed file
    c. Yes, because kirk owns file1
                                                                                          b. a single-file that contains individual uncompressed files
    d. No. because the directory is not accessible to kirk
                                                                                          c. a multi-file directory containing individual compressed files
     e. Yes, because kirk's group matches the group writable directory
                                                                                          d. a multi-file directory containing individual uncompressed files
102. What is usually contained in the environment variable $PATH?
                                                                                          e. a single-file that contains individual compressed files
    a. the absolute path of your login home directory
                                                                                      111. Which is the best choice for an extended partition size that will hold exactly two
    b. a colon-separated list of your passwd file fields
                                                                                           100MB logical partitions?
    c. a colon-separated list of directories containing command names
                                                                                          a. 130MB
                                                                                                                     b. 190MB
                                                                                                                                               c. 330MB
    d. the absolute path of the system /path directory
                                                                                          d. 200MB
                                                                                                                     e. 230MB
    e. the absolute path of your login shell
                                                                                     112. What would you type to change the permissions on a file to r-x-wxrw-?
103. On a disk with seven partitions, give the correct partition names after you delete
                                                                                                                                  b. chmod 365 file
                                                                                          a. chmod 653 file
    partition sda5:
                                                                                          c. chmod 241 file
                                                                                                                                  d. chmod 120 file
    a. sda1 sda2 sda3 sda4 sda5 sda6
                                                                                          e. chmod 536 file
    b. sda1 sda2 sda3 sda4 sda5
                                                                                      113. If file a contains 3 lines, and file b contains 2 lines, then how many lines are output
    c. sda1 sda2 sda3 sda4 sda6
                                                                                          on your screen by this command line: rm a b | cat
    d. sda1 sda2 sda3 sda4 sda6 sda7
                                                                                          a. 3 followed by 2
                                                                                                                                  b. no output on screen
    e. sda1 sda2 sda3 sda4 sda5 sda7
                                                                                          c. 2 followed by 3
                                                                                                                                  d. 5
104. If file a contains 3 lines, then how many lines are output on your screen by this
                                                                                           e. 3
    command line: cat a | echo hi
                                                                                      114. What command powers down the machine safely?
                               b. 1 followed by 3
    a. 3 followed by 1
                                                         c. 4
                                                                                          a. fdisk
                                                                                                                     b. chkconfig
                                                                                                                                               c. passwd
    d. 1
                               e. 3
                                                                                          d. gpasswd
                                                                                                                     e. shutdown
105. What command shows all the lines in file foo that contain the string bar?
                                                                                      115. What do you notice in the user/owner field if you use ls -1 on a file owned by a
    a. foo | grep bar
                                            b. cat foo > grep bar
                                                                                          deleted user?
    c. grep bar <foo
                                            d. grep foo bar
                                                                                          a. the field is the name "removed"
    e. cat foo | wc bar
                                                                                          b. the field is an account name in parentheses, e.g. (luke)
106. If my current directory is /bin, which of these pathnames is equivalent to the file
                                                                                          c. the field is a number instead of an account name
    name /bin/ls?
                                                                                          d. the field is the name "deleted"
    a. ls/.
                               b. ../../bin/ls
                                                         c. /root/bin/ls
                                                                                          e. the field is the number zero
    d. ./bin/ls
                               e. ../bin/ls/.
                                                                                      116. If /bin/foo is a program that outputs one and /usr/bin/foo is a program
107. If file a contains 3 lines, and file b contains 2 lines, then how many lines are output
                                                                                          that outputs two, what would be the output on your screen of this two command
    on your screen by this command line: cat b | cat a
                                                                                           sequence: PATH=/bin/ls:/home:/usr/bin/cat:/etc ; foo
    a. 2
                               b. 3 followed by 2
                                                         c. 5
                                                                                          a. one
    d. 3
                               e. 2 followed by 3
                                                                                          b. two followed by one
108. Which command line does a full log-in as the root user?
                                                                                          c. bash: foo: command not found
    a. su --login
                                            b. login --root
                                                                                          d. two
    c. su login=root
                                            d. root --login
                                                                                          e. one followed by two
    e. login -root
```

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133. Pick the correct order of operations: 141. Given the following, can user **kirk** in group **starfleet** copy **./file1** to a. swapon, mkswap, fdisk b. fdisk, mkswap, swapon drwxrw-r-x 2 root starfleet 4096 Oct 7 14:00 . c. fdisk, swapon, mkswap d. mkswap, fdisk, swapon -rwx-wx-wx 1 kirk starfleet 123 Oct 4 14:05 file1 e. swapon, fdisk, mkswap a. Yes, because kirk owns file1 134. What command sends signals to processes using their process numbers? b. No, because **file1** has no read permissions for **kirk** a. chkconfig b. telinit c. init c. Yes, because kirk has write permissions on file1 d. signal e. kill d. No, because the directory has no write permissions for others 135. What command can you use to delete a directory that isn't empty? e. No, because the directory is not accessible to kirk b. mv -r dir a. rmdir -r dir 142. Which of these commands makes a file owned by me, also executable by me? d. del -r dir c. rm -r dir a. umask 111 myfile b. chmod u+x ./myfile e. deldir -r dir c. chmod x+u myfile d. umask 777 myfile 136. File a contains 2 lines. File b contains 3 lines. How many lines are in file e after e. chmod x=u ./myfile this command line: 143. If your PATH contained only the file names /bin/sh, /bin/cat, and ln a d ; cp a f ; ln d c ; ln c e ; cat a b d f > e /bin/ls, then what would be the output on your screen of this command: *a*. 9 d. 5 b. 6 c. 2 e. 3 cat /etc/passwd 137. When the shell exits, what happens to paused ("Stopped") jobs of the shell? a. bash: /bin/sh: command not found a. they are made into foreground jobs b. cat: /etc/passwd: command not found b. they keep running c. cat: bash: no such file or directory c. they exit d. bash: cat: command not found d. they are sent a termination signal e. bash: /bin/cat: no such file or directory e. they are stopped 144. If you delete an account with **userdel**, does it delete the user's home directory? 138. What is in file **foo** after this command line: a. no, unless the home directory is under /home echo hi >a ; ln a b ; echo me >b ; ln a foo ; rm a b b. yes, only if the home directory is under /home a. no such file (nonexistent) b. nothing (empty file) c. yes, if you use a special option d. hi c. me d. not enough information to answer e. hi followed by me e. userdel cannot delete home directories 139. What command modifies existing account information (and possibly home 145. In an empty directory, how many words are in file **c** after this: directory)? touch a ; echo 1 2 3 >b ; 1s >c b. passwd a. newuser c. usermod *a*. 3 *b*. 1 c. 4 d. 5 e. 2 e. adduser d. makeuser 146. The /etc/fstab file contains a list of: 140. If you are in /etc and ls -1 shows a symbolic link bar -> ../you/foo a. currently mounted file systems then dereference the absolute path of bar with no symbolic links: b. file system tables used to identify partition types b. /etc/bar/you/foo a. /etc/you/foo c. file systems to mount when booting the system c. /you/foo d. /bar/you/foo d. file system tables used by the usermod command e. /etc/you/foo/bar e. file system tables used by the adduser command

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

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

148. What option keyword do you add in GRUB to boot a machine single-user?

- a. initrd
- b. single

c kernel

d. rhab

- e. boot
- 149. Which is the best choice for an extended partition size that will hold exactly three 100MB logical partitions?
 - a. 320MB

b. 290MB

c. 100MB

d. 300MB

- e. 400MB
- 150. If you are in /etc and ls -1 shows a symbolic link bar -> .../foo then dereference the absolute path of bar with no symbolic links:
 - a. /etc/bar/foo
- b. /etc/foo/bar
- c. /foo

- d. /etc/foo
- e. /bar/foo
- 151. If I mount sda1 on /one and sda2 on /two, how can I link the existing file /one/foo to the new pathname /two/bar?
 - a. ln -s /one/foo /two/bar
 - b. ln /one/bar /two/foo
 - c. ln /one/foo /two/bar
 - d. ln -s /two/bar /one/foo
 - e. ln /two/bar /one/foo
- 152. To change to the parent directory, do this:
 - a. cd .

b. cd ..

c. cd

- d. pwd ...
- e. pwd
- 153. What is in file out after this command line: echo 1 2 >out 3 4
 - a. 1 2 3 4

b. 3 4

c. 1 2

d. nothing (empty file)

- e. echo 1 2
- 154. Given the following, can user **kirk** in group **starfleet** modify **./file1**?

dr-xr-xr-x 2 root starfleet 4096 Oct 7 14:00 .

-r-xrwxrwx 1 kirk starfleet 123 Oct 4 14:05 file1

- a. No, because **kirk** has no write permission on the directory
- b. No, because kirk has no write permissions on file1
- c. No, because execute permissions are not set for kirk on file1
- d. No, because the directory is not accessible to kirk
- e. Yes, because kirk owns file1

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

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touch ./foo : mv ./mt/../foo ../me/bar

- a. the directory **mt** now contains only a file named **bar**
- b. the directory mt/.. now has a file named bar in it
- c. the command fails because path ./mt/../foo does not exist
- d. there is a second copy of the file **foo** in the file named **bar**
- e. the command fails because path ../me/bar does not exist
- 156. Rewrite /var/./a/../../var/b/../../etc/./bar/../foo as a simplified absolute path:
 - a. /var/foo
- b. /var/a/foo
- c. /etc/bar/foo

c. deldir

- d. /var/b/foo
- e. /etc/foo
- 157. On a disk with eight partitions, give the correct partition names after you delete partition sda2:
 - a. sda1 sda2 sda3 sda4 sda6 sda7 sda8
 - h. sda1 sda3 sda4 sda5 sda6 sda7 sda8
 - c. sda1 sda2 sda3 sda4 sda5 sda7 sda8
 - d sda1 sda2 sda3 sda4 sda5 sda6
 - e. sda1 sda2 sda3 sda4 sda5 sda6 sda7
- 158. If /bin/foo is a program that outputs one and /usr/bin/foo is a program that outputs two, what would be the output on your screen of this two command sequence: PATH=/dev:/usr/bin:/usr:/bin:/etc; /bin/foo
 - a. bash: /bin/foo: command not found
 - b. two
 - c. two followed by one
 - d. one followed by two
 - e. one
- 159. What command can you use to delete an empty directory?
 - a. rmdir d. delete

- b. mvdir
- e. erase
- 160. What command line modifies and moves (in one command line) the home directory **foo** to **bar** for the existing user **bob**?
 - a. usermod -dm /home/bar bob
 - b. usermod -m -d /home/foo /home/bar
 - c. usermod -d -m /home/bar bob
 - d. usermod -m -d /home/bar bob
 - e. usermod -d -m /home/bob bar

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161. If the file pig contained the word **foo**, what would be the output on your screen of this two command sequence:

PATH=/etc/passwd:/bin/ls:/bin/cat; /bin/ls pig

- a. pig
- b. foo
- c. /bin/ls: pig: No such file or directory
- d. bash: /bin/ls: command not found
- e. no output on screen
- 162. If /bin/foo is a program that outputs dad and /usr/bin/foo is a program that outputs mom what would be the output on your screen of this two command sequence: PATH=/usr:/etc:/bin:/usr/bin ; foo
 - a. mom followed by dad
 - b. dad
 - c. mom
 - d. dad followed by mom
 - e. bash: foo: command not found
- 163. What is the link count of directory **d** after this set of successful commands?

mkdir d ; cd d ; touch a ; mkdir b c

- *a*. 5
- b. 6
- *c*. 3
- d. 2
- e. 4
- 164. If **sub** is a directory that contains only the file **foo**, what happens after this command: mv sub/foo sub/././bar
 - a. there is a second copy of the file **foo** in the file named **bar**
 - b. the command fails because the name bar does not exist
 - c. the directory **sub** now contains only a file named **bar**
 - d. the directory **sub** is now empty
 - e. the command fails because the name **sub/././bar** does not exist
- 165. If I have a directory named **a/b**, which action would increase its *link count* by exactly one?
 - a. create a file named a/b/c
 - b. create a directory named a/b2
 - c. create a directory named a/b/c
 - d. create a file named a/b2
 - e. create a hard link to directory **b** named **b2**
- 166. Which command line initializes a swap partition for future use?
 - a. swapon -s device

b. mkfs -s device

c. fdisk -s device

d. mkswap device

- e. swapon device
- 167. When a user named **foo** runs a command in an executable file owned by **bar**, in a directory owned by **root**, the file executes with the permissions of:
 - a. root and foo
- h. bar

c. root and bar

d. foo

e. root

- 168. The shadow password file is used:
 - a. to hide encrypted passwords from viewing by ordinary users
 - b. to store secondary passwords for times when you forget your main one
 - c. to allow passwords to exist on partitions other than the ROOT
 - d. to keep a back-up of the main password file in case of corruption
 - e. to reduce the size of the main password file for faster access
- 169. If /bin/xxx is a program that outputs one and /usr/bin/xxx is a program that outputs two, what would be the output on your screen of this two command sequence: PATH=/etc:/usr/bin:/usr:/bin ; /bin/xxx
 - a. one
 - b. one followed by two
 - c. two followed by one
 - d. bash: /bin/xxx: command not found
 - e. two
- 170. What command creates a new user account?
 - a. makeuser
- h. useradd
- c. passwd

- d. gpasswd
- e. groupmod
- 171. How many arguments are passed to the command by the shell on this command line: <foo foo " a 'b c' d " e ' f " q " ' >foo *a*. 5 b. 2 d. 3 c. 4 e. 6
- 172. What are upstart and systemd?
 - a. replacements for the legacy run levels
 - b. time synchronization daemons
 - c. programs to handle system log messages
 - d. uptime measurement and statistical programs
 - e. programs to handle UPS back-up power systems
- 173. What command line shows you all the partition names on disk?
 - a. df disk

b. du disk

c. find / disk

- d. fdisk -1 disk
- e. file -s disk
- 174. The *difference* between the system (**root**) crontab and all the user (personal) crontabs is:
 - a. the personal crontab also has the userid in it
 - b. the system crontab has the date and time in it
 - c. the personal crontab has the date and time in it
 - d. the personal crontab only runs commands once
 - e. the system crontab also has the userid in it
- 175. If your terminal type is **xterm**, what is the output of this command line? echo '\$TERM'
 - a. xterm

b. no output on screen

c. STERM

d. 'STERM'

e. 'xterm'

176. 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 | uniq | tail -3 | head -1 a. 7 7 b. 7 c. 1 d. 3 e. 8 177. Which of these is a Linux/Unix DOS-style **primary** partition name? c. sdb5 d. sdb4 a. sda6 b. sda7 e. sda5 178. What is the purpose of the shadow password file? a. to keep a back-up of the main password file in case of corruption b. to allow passwords to exist on partitions other than the ROOT c. to hide encrypted passwords from viewing by ordinary users d. to reduce the size of the main password file for faster access e. to store secondary passwords for times when you forget your main one 179. Under what directory are system log files usually stored? a. /etc/log/ b. /grub/boot/ c. /log/var/ d. /var/log/ e. /boot/grub 180. What command will recursively show disk usage in directories? b. df a. fdisk d. find e. du 181. Which **crontab** line executes at **15:34** every day? a. * * * 34 15 command b. 15 * * * 34 command c. 34 15 * * * command d. 15 34 * * * commande. * * * 15 34 command 182. If /bin/prg is a program that outputs hi and /usr/bin/prg is a program that outputs **foo** what would be the output on your screen of this two command sequence: PATH=/etc:/usr/bin:/bin ; prg a. foo b. hi followed by foo c. hi d. bash: prg: command not found e. foo followed by hi 183. Who can change the permissions of the following directory? dr-xrwxrwx 17 foo bar 4096 Apr 15 16:40 . a. user **foo** and any user in group **bar** b. anyone except user **foo** c. only users in group bar

```
d. only user foo
    e. any users
184. If you type the command cat, which CTRL key will send an EOF and take you
    back to the command prompt?
                     b. ^C
    a. ^R
                                    c. ^E
                                                     d. ^U
```

185. If the file **bat** contained the word **foo**, what would be the output on your screen of this two command sequence:

PATH=/bin/cat:/bin/who:/bin/ls; cat bat

- a. cat: bat: No such file or directory
- b. foo
- c. no output on screen
- d. bat
- e. bash: cat: command not found
- 186. What is the final link count of file **a** after this:

ln ad; cp af; ln dc; ln fg; ln ce a. 1 b. 2 c. 5 d. 3 e. 4

187. What is the output on your screen of this two command sequence:

PATH=/bin/cat:/bin/sh:/bin/ls ; ls nosuchfile

- a. bash: /bin/ls: command not found
- b. ls: /bin/ls: command not found
- c. bash: /bin/sh: No such file or directory
- d. bash: ls: command not found
- e. ls: nosuchfile: No such file or directory
- 188. What command shows the kernel "ring buffer" of system messages?
 - b. ringout a. crontab c. pstree d. dmesq e. syslog
- 189. File a contains 2 lines. File b contains 3 lines. How many lines are in file d (not in c) after this command line:

ln ad; ln dc; ln ce; cat a a b b c c d d e e >c c. 2 a. 10 b. 6 d. 21 e. 18

190. Given the following, can user **kirk** in group **starfleet** remove **./file1**? drwxr-xrwx 2 root starfleet 4096 Oct 7 14:00 . rwxrwxrwx- 1 kirk starfleet 123 Oct 4 14:05 file1

- a. No. because the directory is not accessible to **kirk**
- b. No, because **kirk** has no write permission on the directory
- c. Yes, because **kirk** has full permissions on **file1**
- d. Yes, because kirk owns file1
- e. Yes, because kirk matches the writable other permissions
- 191. What command changes a user's password?
 - a. chsh b. passwd c. chpasswd
 - d. mkpasswd e. password
- 192. Which of these files controls where system log messages get stored?
 - b. /boot/grub/grub.conf a. /etc/group d. /etc/syslog.conf c. /etc/passwd
 - e. /grub/grub.conf

e. ^D

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193. Which system directory contains the run level scripts only for run level 3?

a. /etc/init.d3

b. /3/init.d

c. /etc/rc3.d

d. /3/rc.d

e. /3/grub.d

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

a. ls foo >foo

b. grep 'foo' foo >foo

c. tail foo >foo

d. cat foo >foo

e. sort foo >foo

195. If your PATH variable contains /bin:/usr/bin, what is the output of this command line: echo '\$PATH'

a. '\$PATH'

b. '/bin:/usr/bin'

c. /bin:/usr/bin

d. \$PATH

e. echo: \$PATH: No such file or directory

196. Which command line shows just the count of words in the file?

a. wc file | awk '{print \$2}'

b. wc file | awk '{print #2}'

c. wc file | awk '[print \$2]'

d. wc file | awk '[print #2]'

e. wc file | awk '{print 2}'

197. Which command mounts the second partition of the third disk on directory **foo**?

a. mount /dev/sdc2 /mnt/foo

b. mount /mnt/sdc2 /dev/foo

c. mount /mnt/foo /dev/sdc2

d. mount -t ntfs /mnt/sdc2 /dev/foo

e. mount -t vfat /mnt/foo /dev/sdc2

198. What command fetches (downloads) a file given an http URL?

a. ifetch

b. download

c. fetch

d. find

e. wget

199. Which of the following PATH statements makes the most sense?

a. PATH=/bin/bash:/usr/bin:/bin

b. PATH=/bin:/usr/bin:/etc/shadow

c. PATH=/bin:/usr/bin

d. PATH=/bin:/etc/group:/usr/bin

e. PATH=/bin/ls:/etc/passwd:/usr/bin

200. What command line shows all processes by all users?

a. psall

b. jobs -1

c. jobs

d. ps laxww

e. showall

201. If you use **ls -1** on a file owned by a deleted user, the user/owner field is:

a. the number zero

b. the name "deleted"

c. a number instead of an account name

d. the name "removed"

e. an account name in parentheses, e.g. (luke)

202. Other than root, who can change the permissions of the following directory?

dr-xrwxrwx 17 ian iangrp 4096 Apr 15 16:40 .

a. only user ian

b. anyone except user ian

c. user ian and any user in group iangrp

d. only root can change the permissions

e. only users in group iangrp

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

a. the command fails because the name ./xxx/../bar does not exist

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

c. the directory **xxx** is now empty

d. the directory **xxx** now contains only a file named **bar**

e. the command fails because the name ./xxx/./foo does not exist

204. Given this **ls** -il long listing:

123 drwxr-xr-x 456 bin bin 789 Jul 31 12:33 dir How many subdirectories lie immediately under dir?

a. **456**

b. 789

c. **123**

d. 787

e. **454**

205. Given the following, can user kirk in group starfleet modify ./file1?
dr-xr--r-x 2 root starfleet 4096 Oct 7 14:00 .
-rw-rw-r- 1 kirk starfleet 123 Oct 4 14:05 file1

a. No, because the directory is not accessible to kirk

b. No, because execute permissions are not set for kirk on file1

c. No, because **kirk** has no write permission on the directory

d. Yes, because kirk has write permissions on file1

e. Yes, because kirk owns file1

206. What command line shows only your own processes, not all processes?

a. crontab

b. ps lxww

c. showall

d. dmesq

 $\it e.\,$ psmine

207. If /bin/foo is a program that outputs one and /usr/bin/foo is a program that outputs two, what would be the output on your screen of this two commands	
sequence: PATH=/etc:/usr/bin:/usr:/bin:/dev ; foo	$a. ext{ command \#} b. ext{ command \&} c. ext{ command %} \ d. ext{ command $$$} e. ext{ command $@$}$
a. two	
b. one	217. What is usually contained in the environment variable \$SHELL?
c. one followed by two	a. the relative path of the gystem / shell directory
d. two followed by one	b. the relative path of the system /shell directoryc. the absolute path of your login shell
e. bash: foo: command not found	d. the absolute path of the system /shell directory
208. Which fdisk internal command letter displays the list of all partitions?	e. the relative path of your login shell
a. 1 b. L c. q d. p e. f	218. What command displays your numerical UID and GID?
209. Which signal cannot be caught or ignored by a process and causes an immediate	a. gd b . passwd c . id
process end?	d. ugprint e. uidprint
a. TERM b . KILL c . STOP d . HUP e . END	219. If /bin/pig is a program that outputs hi and /usr/bin/pig is a program
210. When a user named foo runs a command in a setuid executable file owned by bar , in a directory owned by root , the file executes with the permissions of:	that outputs foo what would be the output on your screen of this two command sequence: PATH=/etc:/usr/bin:/bin ; pig
a. bar b . root and foo c . foo	a. hi
d. root and bar e . root	b. hi followed by foo
211. If you type the command sleep 60 , which <i>CTRL</i> key will interrupt it and take you back to the command prompt?	c. foo followed by hi d. bash: pig: command not found
a . $\hat{}$ U b . $\hat{}$ R c . $\hat{}$ I d . $\hat{}$ C e . $\hat{}$ D	e. foo
212. Which of these command line will make foo contain all of the content of f1 followed by all of the content of f2 ?	220. If the file pig contained the word bar , what would be the output on your screen of this two command sequence:
a. mv f1 f2 >foo b . ln f1 f2 >foo	PATH=/etc/passwd:/bin/ls:/bin/who ; /bin/cat pig
c. cp f1 f2 >foo d . cat f1 f2 >foo	a. /bin/cat: pig: No such file or directory
e. echo f1 f2 >foo	b. bar
213. If you are in /etc and ls -l shows a symbolic link bar -> foo then	c. no output on screen d. pig
dereference the absolute path of bar with no symbolic links:	a. pige. bash: /bin/cat: command not found
a. /foo b. /bar/foo c. /etc/foo	
d./etc/bar/foo e./etc/foo/bar	221. If you are in /etc and ls -1 shows a symbolic link bar -> dir/foo then dereference the absolute path of bar with no symbolic links:
214. Which of the following is true, given this long directory listing:	a. /etc/dir/foo b. /bar/dir/foo
drwxr-xx 512 bin bin 712 Jul 31 12:33 dir	c. /etc/bar/dir/foo d. /dir/foo
a. The number 712 is the count of links (names) this directory has.b. The number 512 is the size of this directory.	<pre>e. /etc/dir/foo/bar</pre>
c. The number 512 is the size of this directory.	222. Pick the correct order of operations:
d. The number 512 is the count of links (names) this directory has.	a. fdisk, mkswap, swapon b . swapon, fdisk, mkswap
e. The number 712 is the inode number of this directory.	c. mkswap, swapon, fdisk d . swapon, mkswap, fdisk
215. Which command correctly mounts a first disk partition on directory <i>dir</i> ?	e. mkswap, fdisk, swapon
a. mount -t ext2 dir /dev/sda1	223. What is the link count of directory d after this set of successful commands?
b. mount -t ext3 /mnt/sda1 dir	mkdir d; cd d; touch f; ln f a; ln f b
c. mount /mnt/sdal dir	a. 4 b. 5 c. 3 d. 1 e. 2

d. mount /dev/sda1 dir e. mount dir /dev/sda1