



Exam: 117-101

Title : General Linux

Ver : 01.22.04

Section A contains 236 questions. Section B contains 94 questions. The total number of questions is 330.

Section A

QUESTION 1 What option is used with the useradd command to specify the user's home directory?

- A. -d
- B. -h
- C. -u
- D. -a

Answer: A

QUESTION 2 What switch is used with the usermod command to change a user's secondary groups?

- A. -G
- B. -group
- C. -d
- D. -U

Answer: A

QUESTION 3 Do changes to the inittab file require a reboot in order to take effect?

- A. No
- B. Yes

Answer: A

QUESTION 4 You want to repeat the last command you entered. How would you do this?

- A. #
- B. !!
- C. #l
- D. ##

Answer: B

QUESTION 5 What option can be used with the shutdown command to cancel a pending shutdown?

- A. shutdown -c
- B. shutdown -x
- C. shutdown -n
- D. shutdown -u

Answer: A

QUESTION 6 Which of the following are required in the /etc/passwd file when creating a user account?

(Choose all that apply)

- A. login name
- B. userid
- C. default group
- D. password age

E. minimum password length

Answer: A, B, C

QUESTION 7 You have just added the following line to your syslog.conf file:
lpr.info /dev/console. But, line printer messages are not being sent to the console.
What is most likely the problem?

- A. after modifying the syslog.conf file, the syslog daemon needs to be restarted.
- B. the entry is formatted incorrectly
- C. the syslog daemon reads its configuration information from the syslogd file

Answer: A

QUESTION 8 What run level represents basic multi-user?

- A. 2
- B. 0
- C. 1
- D. 5

Answer: A

QUESTION 9 What command be used to find the systems previous run level?

- A. runlevel
- B. level
- C. rlevel previous
- D. show level previous

Answer: A

QUESTION 10 What syslog.conf facility represents user authentication processes?

- A. auth
- B. proc
- C. user
- D. login

Answer: A

QUESTION 11 What syslog.conf facility represents the cron daemon?

- A. crond
- B. daemon
- C. cron
- D. crontab

Answer: C

QUESTION 12 Which of the following syslog identifiers represents the highest priority?

- A. notice
- B. warning
- C. error
- D. critical

Answer: D

QUESTION 13 Which of the following switches can be used with the tar command to find out the difference between two tar files?

- A. -c
- B. -v
- C. -d
- D. -t

Answer: C

QUESTION 14 You want to add files to a previously created tar file. You want to replace existing files with newer files, how can you do this?

- A. Use the append command
- B. Use the tar command with the -t switch
- C. Use the add command
- D. Use the tar command with the -u switch

Answer: D

QUESTION 15 What syslog.conf facility represents kernel processes?

- A. user
- B. proc
- C. daemon
- D. kern

Answer: D

QUESTION 16 You want to view a listing of previously entered commands. What command would you use?

- A. hist
- B. histfile
- C. show buff
- D. history

Answer: D

QUESTION 17 Which of the following syslog identifiers represents the highest priority?

- A. alert
- B. error
- C. critical
- D. emerg

Answer: D

QUESTION 18 You want to uninstall lilo.

Which of the following would you do to accomplish this?

- A. lilo -u
- B. remove lilo
- C. uninstall lilo
- D. lilo -r

Answer: A

QUESTION 19 Linux is a(n) _____ operating system, meaning the source code is freely available.

- A. Open sourced
- B. User licensed
- C. Closed source
- D. Open binary

Answer: A

QUESTION 20 DNS provides _____ to IP address mappings.

- A. NETBIOS name
- B. host name
- C. MAC address

Answer: B

QUESTION 21 You want there to be 3 grace days after a password expires before an account becomes disabled.

How would you do this?

- A. Use the useradd command with the -f switch
- B. Check the delay option in user admin
- C. Edit the user's user.conf file
- D. Use the useradd command with the -d switch

Answer: A

QUESTION 22 You had a contractor come into your company. You originally set his account to expire after thirty days. You now need to change this.

How can you do this?

- A. usermod -e
- B. usermod -a
- C. usermod -x
- D. usermod -d

Answer: A

QUESTION 23 You want to have the process /etc/myprocess run when the system enters run level 3.

Which of the following inittab entries would accomplish this?

- A. 5:3:once:/etc/myprocess
- B. 3:4:once:/etc/myprocess
- C. once:3:4:/etc/myprocess
- D. once:5:3:/etc/myprocess

Answer: A

QUESTION 24 What option can be used with the shutdown command to send a warning message alerting users that the system will be shut down?

- A. shutdown -k
- B. shutdown -w
- C. shutdown -a
- D. shutdown -c

Answer: A

QUESTION 25 Which of the following syslog.conf entries would cause kernel error messages to be sent to the system console?

- A. kern warning console
- B. kern.error console
- C. kern.warning /dev/console
- D. kern error console

Answer: C

QUESTION 26 What run level represents multi-user?

- A. 3
- B. 0
- C. 1
- D. 5

Answer: A

QUESTION 27 What syslog.conf facility represents miscellaneous daemons?

- A. misc
- B. proc
- C. kern
- D. daemon

Answer: D

QUESTION 28 What syslog.conf facility represents Unix to Unix copy?

- A. ucp
- B. copy
- C. uucp
- D. uuc

Answer: C

QUESTION 29 Which of the following syslog identifiers represents the highest priority?

- A. info
- B. warning
- C. notice

Answer: B

QUESTION 30 You want to add information to a previously created tar file.

How would you do this?

- A. Use the tar command with the -a switch
- B. Use the append command
- C. Use the add command
- D. Use the tar command with the -r switch

Answer: D

QUESTION 31 What syslog.conf facility represents user processes?

- A. auth

- B. proc
 - C. user
 - D. u
- Answer: C
-

QUESTION 32 What command can be used to print out system boot messages?

- A. bootm
 - B. bmsg
 - C. messages
 - D. dmesg
- Answer: D
-

QUESTION 33 You want to set a 30 second delay before your system boots to the default kernel. Which of the following command lines would do this?

- A. lilo -t 30
 - B. lilo -d 30
 - C. lilo delay 30
 - D. lilo 30
- Answer: B
-

QUESTION 34 What command can be used to show all variables?

- A. set
 - B. varlist
 - C. show var
 - D. show
- Answer: A
-

QUESTION 35 What option is used with the useradd command to specify the user's user id?

- A. -u
 - B. -s
 - C. -ui
 - D. -id
- Answer: A
-

QUESTION 36 You are adding a new user. You want to create the user's home directory only if the directory does not exist.

Which of the following would accomplish this?

- A. useradd -m
 - B. useradd -h -y
 - C. useradd -u
 - D. useradd -h
- Answer: A
-

QUESTION 37 Which of the following can be used to switch your system to run level 1?

- A. init 1
- B. inittab 1

- C. rlevel 1
 - D. level 1
- Answer: A
-

QUESTION 38 You want to do a system shutdown, but you don't want the shutdown to occur immediately. You want the system to wait 60 seconds before doing the shutdown. What option can be used with the shutdown command to wait 60 seconds before starting the shutdown?

- A. shutdown -t 60
- B. shutdown -w 1
- C. shutdown -c 60
- D. shutdown -t 1

Answer: A

QUESTION 39 What run level represents administration mode?

- A. 0
- B. 1
- C. 6
- D. 5

Answer: B

QUESTION 40 What file does init processes use as its control file?

- A. /etc/inittab
- B. /etc/proc
- C. /etc/init
- D. /etc/initproc

Answer: A

QUESTION 41 What syslog.conf facility is used to create timestamps in log files?

- A. mark
- B. stamp
- C. time
- D. tstamp

Answer: A

QUESTION 42 Which of the following commands can be used to create a tar archive file in verbose mode?

- A. tar -v
- B. tar -cvf
- C. tar -c
- D. tar -vf

Answer: B

QUESTION 43 What is the name of the configuration file used by the syslog daemon?

- A. syslog.conf
- B. syslogd
- C. slog.conf

D. system.conf

Answer: A

QUESTION 44 What lilo.conf parameter will cause the root file system to be mounted read only?

A. no-write

B. read

C. no-right

D. read-only

Answer: D

QUESTION 45 Which of the following syslog.conf entries would cause kernel error messages to be sent to the system console?

A. kern warning console

B. kern.error console

C. kern.warning /dev/console

D. kern error console

Answer: C

QUESTION 46 What option is used with the useradd command to specify the user's login shell?

A. -s

B. -l

C. -u

D. -sh

Answer: A

QUESTION 47 Which of the following can be used to change a user's home directory?

A. usermod -d

B. usermod -h

C. usermod -u

D. usermod -c

Answer: A

QUESTION 48 You want to have the process /etc/myprocess to run when the system enters run level 2. You want the system to wait until the process completes.

Which of the following inittab entries would accomplish this?

A. 7:2:wait:/etc/myprocess

B. 2:7:wait:/etc/myprocess

C. wait:2:7:/etc/myprocess

D. wait:7:2:/etc/myprocess

Answer: A

QUESTION 49 Which of the following syslog.conf entries would cause kernel warning messages to be sent to the system console?

A. kern.console warning

B. kern.warning /dev/console

C. kern.warning.console

D. kern warning console

Answer: B

QUESTION 50 You want to repeat a command that began with the letters 'ab'.

How would you do this?

A. !ab

B. list ab

C. #ab

D. show ab

Answer: A

QUESTION 51 What syslog.conf facility represents login processes?

A. proc

B. login

C. user

D. auth

Answer: D

QUESTION 52 What option can be used with the shutdown command to cancel a pending shutdown?

A. shutdown -c

B. shutdown -x

C. shutdown -n

D. shutdown -u

Answer: A

QUESTION 53 Which of the following commands can be used to extract a tar file?

A. tar -vf

B. tar -xvf

C. tar -e

D. tar -v

Answer: B

QUESTION 54 Which of the following Linux packages can be used for web caching?

A. qmail

B. squid

C. apache

D. samba

Answer: B

QUESTION 55 What lilo.conf parameter is used to specify what device should be mounted as root by default?

A. root

B. drive

C. mntroot

D. mount

Answer: A

QUESTION 56 You want to find the full path of a certain command. How would you do this?

- A. By using the 'where' command
- B. By using the 'path' command
- C. By using the 'which' command

Answer: C

QUESTION 57 You want a user's account to expire in ten days. What option used with the useradd command will allow you to do this?

- A. -e
- B. -u
- C. -d
- D. -t

Answer: A

QUESTION 58 Which of the following can be used to switch your system to run level 3?

- A. init 3
- B. rlevel 3
- C. level 3
- D. inittab 3

Answer: A

QUESTION 59 Which of the following syslog.conf entries would cause mail error messages to be sent to the system console?

- A. mail error console
- B. mail.err /dev/console
- C. mail. error console
- D. mail.err.console

Answer: B

QUESTION 60 What command can be used to find the current run level?

- A. runlevel
- B. level
- C. show level
- D. rlevel

Answer: A

QUESTION 61 Which of the following syslog identifiers represents the highest priority?

- A. alert
- B. error
- C. critical
- D. emerg

Answer: D

QUESTION 62 What daemon controls the syslog?

- A. syslog
- B. syslogd

- C. logd
 - D. sys
- Answer: B
-

QUESTION 63 Which lilo.conf parameter will specify the amount of time the system will wait before booting to the default image?

- A. wait
 - B. delay
 - C. pause
 - D. default
- Answer: B
-

QUESTION 64 What switch is used with the useradd command to specify a user's initial group?

- A. -g
 - B. -i
 - C. -u
 - D. -ig
- Answer: A
-

QUESTION 65 What option can be used with the shutdown command to skip fsck on reboot?

- A. shutdown -f
 - B. shutdown -o
 - C. shutdown -r
 - D. shutdown -s
- Answer: A
-

QUESTION 66 What run level represents a power down?

- A. 5
 - B. 0
 - C. 1
 - D. 4
- Answer: B
-

QUESTION 67 What syslog.conf facility represents the line printer?

- A. ptr
 - B. linep
 - C. lpr
 - D. lprinter
- Answer: C
-

QUESTION 68 Which daemon will send kernel alert messages?

- A. alertd
 - B. smtpd
 - C. krnl
 - D. syslogd
- Answer: D
-

QUESTION 69 What syslog.conf facility represents mail processes?

- A. proc
- B. daemon
- C. mail
- D. smtp

Answer: C

QUESTION 70 What syslog.conf facility represents user processes?

- A. auth
- B. proc
- C. user
- D. u

Answer: C

QUESTION 71 What command can be used to cause changes to the inittab file to take effect without a system reboot?

- A. init q
- B. init r
- C. inittab r
- D. inittab q

Answer: A

QUESTION 72 What option can be used with the shutdown command to reboot the system?

- A. shutdown -r
- B. shutdown -y
- C. shutdown -c
- D. shutdown -b

Answer: A

QUESTION 73 What run level represents a system reboot?

- A. 6
- B. 1
- C. 2
- D. 5

Answer: A

QUESTION 74 What syslog.conf facility represents Usenet news?

- A. usenet
- B. news
- C. uunet
- D. net

Answer: B

QUESTION 75 You want to find out what files are contained in a tar file.
How would you do this?

- A. Use the tar command with the -t switch
- B. Use the tar command with the -r switch
- C. Use the grep command
- D. Use the find command

Answer: A

QUESTION 76 What syslog.conf facility represents httpd processes?

- A. http
- B. daemon
- C. smtp
- D. proc

Answer: B

QUESTION 77 You want to repeat command number 3 in your history. How would you do this?

- A. repeat 3
- B. !3
- C. show 3
- D. #3

Answer: B

QUESTION 78 What lilo option will list the name and location of available kernels?

- A. -q
- B. -k
- C. -v
- D. -l

Answer: A

QUESTION 79 What lilo.conf parameter is used to specify vga text mode?

- A. vgatext
- B. svga
- C. vga
- D. vtm

Answer: C

QUESTION 80 You want to set a script to run when your Linux system reboots. What lilo option should you use?

- A. -R
- B. -S
- C. -T
- D. -L

Answer: A

QUESTION 81 What is the configuration file for the xscreensaver?

- A. xscreensaver.conf
- B. .xscreensaver

- C. xsaver.conf
- D. xdm-config

Answer: B

QUESTION 82 What operation of the make utility cannot normally be performed as a normal user?

- A. mrproper
- B. clean
- C. dep
- D. depends
- E. install

Answer: E

QUESTION 83 What is the function of the .Xdefaults file?

- A. Provides the defaults for new users X programs
- B. A default user X profile, used as a template
- C. User customizations for programs
- D. KDE default user configuration file

Answer: C

QUESTION 84 What entry in the X configuration file specifies where the fonts are located for the X system?

- A. Fonts
- B. Files
- C. Font path
- D. Devices

Answer: C

QUESTION 85 A user named Certkiller needs to execute a system script file.

What rights do the user need to execute a script file?

- A. Read, Write and Execute for all
- B. Execute only for user
- C. Read-only for user, Execute for group
- D. Read and Execute in the same permission set

Answer: D

QUESTION 86 What is the entry in the XF86Config file that specifies the fonts are on the local machine?

Choose Two.

- A. unix/:-1
- B. unix/:7100
- C. tcp/:45
- D. udp/:80
- E. font/:-1

Answer: A, B

QUESTION 87 What section of the XF86Config file contains the entry to set the path for fonts used?

- A. Fonts
- B. Files

- C. Ttype
- D. ATM
- E. Font Path

Answer: B

QUESTION 88 When a user executes the command "ps ax", what is shown on the console? Choose all that apply.

- A. Process's user-related information
- B. Processes without controlling terminals
- C. Processes used by the XFree86 System
- D. All regular processes
- E. Processes on remote machines

Answer: B, D

QUESTION 89 To change all lower case characters in a file to upper case, pick the correct command.

- A. tr 'a-z' 'A-Z' file
- B. tr [a-z] [A-Z] < file
- C. tr "a-z" "A-Z" file
- D. tr 'a-z' 'A-Z' < file
- E. tr {a-z} {A-Z} > file

Answer: D

QUESTION 90 Which of the following commands will duplicate the contents of the /A directory in the existing and empty /B directory?

- A. mv /A/* /B
- B. mv /A/ /B
- C. mv /A /B
- D. mv /A/* .

Answer: A

QUESTION 91 What will the command "kill -HUP 1354" do?

- A. Kill the process 1354 destructively
- B. Kill the process 1354, allowing cleanup of memory
- C. Restart the process 1354, re-reading it's config files
- D. Restart the process 1354, resetting it's associated modem

Answer: C

QUESTION 92 You need to have all the output from the executable myprog written to a text log named file1.out.

This program must not send any output to the console.

Which of the commands listed will accomplish this?

- A. myprog > file1.out 2>&1
- B. myprog > file1.out 1>&2
- C. myprog > file1.out 1> /dev/null
- D. myprog 1&2> file1.out

E. myprog 1> /dev/null > file1.out

Answer: A

QUESTION 93 What is the name of the default XFree86 Font Server?

- A. xfs
- B. xfserver
- C. xfree86fs
- D. Xfs
- E. xfontserver

Answer: A

QUESTION 94 Which of the following are windows managers? Choose all that apply.

- A. Xfce
- B. Afterstep
- C. IceWM
- D. FVWM
- E. Black Box

Answer: A, B, C; D, E

QUESTION 95 What command will tell you the color depth of your display?

- A. xwininfo
- B. xvidtune
- C. xcd
- D. xcdepth
- E. xvidepth

Answer: A

QUESTION 96 Two directories require different quota for file system usage. The /var/mail directory needs a 20MB quota, and the /home directories require a 40MB quota.

What must be true about these directories?

- A. They must exist on Ext3 partitions
- B. They must be on different drives
- C. They must be on different partitions
- D. They must be mounted by the root user

Answer: C

QUESTION 97 On an ext2 partition, what portion is reserved for the root user?

- A. 100 cylinders
- B. No less than 500 blocks
- C. None
- D. 5%
- E. 1/32nd of the total space

Answer: D

QUESTION 98 What are the default permissions for the Red Hat /etc/passwd file?

- A. 644

- B. 640
- C. 400
- D. 641
- E. 440

Answer: A

QUESTION 99 What are the default permissions on the Red Hat /etc/shadow file?

- A. 644
- B. 600
- C. 400
- D. 444
- E. 640

Answer: C

QUESTION 100 What are the default permissions on the Debian /etc/passwd file?

- A. 644
- B. 640
- C. 777
- D. 700
- E. 400

Answer: A

QUESTION 101 What are the default permissions on the Debian /etc/shadow file?

- A. 654
- B. 640
- C. 400
- D. 644
- E. 540

Answer: B

QUESTION 102 Which of the following directories would be the least likely to need backing up? Choose Two.

- A. /usr
- B. /etc
- C. /home
- D. /tmp
- E. /swap

Answer: D, E

QUESTION 103 Which of the following will copy file1.txt to file2.txt? Choose Two.

- A. `cat file1.txt > file2.txt`
- B. `cat file1.txt | file2.txt`
- C. `cp file1.txt > file2.txt`
- D. `cp file1.txt file2.txt`
- E. `cpio < file1.txt > file2.txt`

Answer: A, D

QUESTION 104 When you create a new file, the permissions show as 654. What value is the umask likely set at?

- A. 012
- B. 002
- C. 123
- D. 022

Answer: A

QUESTION 105 When you create a new directory, you see the permissions are set to 600. What umask value would cause this to happen?

- A. 177
- B. 066
- C. 244
- D. 155
- E. 333

Answer: A

QUESTION 106 You need to display all files in the current directory that start with a "a" and end with a "v", regardless of their length or use of delimiters. Choose the best answer.

- A. `ls a*v`
- B. `ls a.v`
- C. `ls a-v`
- D. `ls [a-v]`

Answer: A

QUESTION 107 What command with switches will display the disk utilization for all mounted file systems?

- A. `df`
- B. `vmstat`
- C. `du`
- D. `top`
- E. `free`

Answer: A

QUESTION 108 Which command will show the number of free and used inodes for your system's mounted file systems?

- A. `du -i`
- B. `df -i`
- C. `ls -iR /`
- D. `freeinodes`

Answer: B

QUESTION 109 Which of the commands will show you only the middle 10 lines of a 30 line text file named text file?

- A. `head -n 11-20 text file`
- B. `head -n 20 text file | tail`
- C. `tail -n 11-20`

D. cat text file | pr -n 11-20

E. nl -n 11-30 text file

Answer: B

QUESTION 110 Which command will display in reverse order a file that is numbered from 1 to End of File?

A. cat file | nl | pr

B. cat file | nl | tac

C. cat file | tac | nl

D. cat file | pr -n | reverse

E. None of the above

Answer: B

QUESTION 111 What command will show the first 10 lines of a file by default?

A. head

B. cat

C. tac

D. nl

E. tail

Answer: A

QUESTION 112 What command will show the last 10 lines of a file by default?

A. tail

B. head

C. cat

D. prstat

E. ps

Answer: A

QUESTION 113 What is the result of the following command?

```
# cat 'echo "$Certkiller
```

A. A syntax error

B. The value of \$Certkiller

C. cat followed by the value of \$Certkiller

D. echo followed by the value of \$Certkiller

E. echo followed by \$Certkiller

Answer: A

QUESTION 114 What is the result of the command:

```
# kill 9 13459
```

A. Kill PID 13459 with a signal 15

B. Kill PID 13459 with a signal 1

C. Kill PID 13459 with a signal 9

D. None of the above

Answer: D

QUESTION 115 How can you execute two commands, the second one being executed only if the first returns a nonzero (program execution failed) exit status?

- A. `command1 || command2`
- B. `command1 && command2`
- C. `command1 $$ command2`
- D. `command1 @@ command2`

Answer: A

QUESTION 116 What command will easily convert tabs in files to spaces?

- A. `convert`
- B. `expand`
- C. `tr`
- D. `sed`
- E. None of the above

Answer: B

QUESTION 117 What does the command "`foo < bar | foobar`" do?

- A. `foo` reads `bar` as `stdin`, pipes output to `foobar`
- B. `foo` and `bar` are fed to `foobar` as `stdin`
- C. `foo`'s output is sent to `bar`, output is written to `foobar`
- D. None of the above

Answer: A

QUESTION 118 What will the command "`cd ~Certkiller`" do?

- A. Changes directory to the user `Certkiller`'s home directory
- B. Changes to a directory named `Certkiller` in the current user's home directory
- C. Changes to directory `/etc/Certkiller`
- D. Produces a syntax error
- E. None of the above

Answer: A

QUESTION 119 You want to move all files in `/dir1` to `/dir2` that begin with `a` and end with `v`.

What is the correct command to do this?

- A. `mv /dir1/a*v /dir2`
- B. `mv -r /dir1/a.v /dir2`
- C. `move /dir1/a?v /dir2`
- D. `ls a*v | cp /dir2`
- E. `mv /dir1/[a-v] /dir2`

Answer: A

QUESTION 120 What does the following command's characters do?

```
# cmd > file.out 2>&1
```

- A. Sends the `stdout` of `cmd` to `file.out`
- B. Sends the `stdout` and `stderr` of `cmd` to `file.out`
- C. Sends the `stderr` to the bit bucket and `stdout` of `cmd` to `file.out`

D. None of the above

Answer: B

QUESTION 121 Regardless of the version of Linux, which of the following help start and stop services on demand?

Select two.

A. xinetd

B. inetd

C. samba

D. nfs

E. amd

Answer: A, B

QUESTION 122 What steps need to be performed, to make a new disk accessible to users?

A. fdisk

B. mkfs

C. mount

D. stat

E. quota on

Answer: A, B, C

QUESTION 123 When the system is mounted, all file systems in the /etc/fstab are mounted, except those with what in the option column?

A. no mount

B. noauto

C. noatime

D. nohup

Answer: B

QUESTION 124 What environment variable will set the path for added libraries?

A. LD_LIBRARY_PATH

B. LIBPATH

C. LPATH

D. LIB

E. None of the above

Answer: A

QUESTION 125 What switch will set the foreground color in X?

A. fg

B. foreground

C. xfg

D. fregrnd

E. None of the above

Answer: A

QUESTION 126 Which of the following best describes the order in which X Window files are executed or read ?

- A. startx -> xinit -> xinitrc -> Xclients
- B. xinit -> startx -> Xclients -> xinitrc
- C. xinitrc -> Xclients -> startx -> xinit
- D. Xclients -> startx -> xinitrc -> xinit

Answer: A

QUESTION 127 Which keystrokes will move the cursor 3 lines down and 4 characters to the right?

- A. 3j4l
- B. 3k4m
- C. 3h4j
- D. 3l4k
- E. 3m4k

Answer: A

QUESTION 128 What two files are used to configure a user's environment that was created with the default options?

- A. ~/.profile, ~/.bashrc
- B. /etc/profile, /bashrc
- C. ~/.bash_profile, ~/.bashrc
- D. /etc/.login, ~/.login
- E. None of the above

Answer: C

QUESTION 129 What file is used to configure the XDM daemon?

- A. xdm-config
- B. xdm.conf
- C. xdmcfg
- D. xdaemon.conf
- E. None of the above

Answer: A

QUESTION 130 The screen size is already configured in X on a system. When started, the screen defaults to a certain size.

The user wants to change it, what file should the user edit manually to accomplish this?

- A. /etc/xf86config
- B. /usr/bin/xf68setup
- C. /etc/X11/XF86Config
- D. /etc/screen size

Answer: C

QUESTION 131 When executing a command that produces output to the screen, you get an exit code of 0.

Choose the best description of what has happened

- A. The program executed properly
- B. The program encountered an error

- C. The program requires more input
- D. The program has returned standard input
- E. The program terminated with a syntax error

Answer: A

QUESTION 132 Which directory is used to store undelivered user email by default?

- A. /var/spool/sendmail/user mail
- B. /var/spool/mail
- C. /var/spool/mail queue
- D. /var/spool/sendmail/username
- E. /var/mail/sendmail/username

Answer: B

QUESTION 133 Which utility would be used to verify the checksum of a downloaded archive file?

- A. verify
- B. chksum
- C. md5sum
- D. chkrpm
- E. pkgchk

Answer: C

QUESTION 134 With a Linux 2.2 Kernel-based machine configuration of 133 MHZ, 32 MB RAM and a 1 GB HD, how much swap should be configured?

- A. 512MB
- B. 256MB
- C. 128MB
- D. 64MB
- E. 32MB

Answer: D

QUESTION 135 What is filename including full path, of the file used to configure library path settings for a system?

- A. /usr/lib/lib.so.1
- B. /etc/lib.conf
- C. /etc/ld.so.conf
- D. /usr/lib/modules/modules.conf
- E. None of the above

Answer: C

QUESTION 136 You set a variable's value with the command "export TEST=snuffy" and then after executing the following script file, you type the command "echo \$TEST".

```
scriptfile1
#!/bin/bash
USER=Certkiller
TEST=$USER
```

What is the variable's value that is returned?

- A. snuffy
- B. Certkiller
- C. empty
- D. variable undeclared
- E. TEST

Answer: A

QUESTION 137 A directory contains the following files:

```
#ls
```

```
ratas saran jacaw cabal cabin
```

You issue the command "ls | grep .a[^b]a.", what files are returned by the command? Choose all that apply.

- A. ratas
- B. jacaw
- C. saran
- D. cabal
- E. cabin

Answer: A, B, C

QUESTION 138 Which of the following will allow both the commands to execute, regardless of their individual exit status?

- A. command1 | command2
- B. command1 \$ command2
- C. command1 & command2
- D. command1 ; command2
- E. command1 ^ command2

Answer: D

QUESTION 139 Which of the following will cause command2 not to execute if command1 fails?

- A. command1 & command2
- B. command1 && command2
- C. command1 || command2
- D. command1 | command2
- E. command1 ; command2

Answer: B

QUESTION 140 A user needs to search a file for lines that contain the asterisk (*) character.

Which grep search command will accomplish this? Choose all that apply.

- A. grep * text file
- B. grep '*' text file
- C. grep "*" text file
- D. grep \<*\> text file
- E. grep "*" text file

Answer: A, B, C

QUESTION 141 You have booted a desktop Linux system and logged in. When you type "startx", a mouse error occurs almost immediately.

What's the most likely cause of the problem?

- A. a reboot is needed
- B. the gpm malfunctioned and must be reloaded
- C. the wrong mouse protocol is selected
- D. the wrong mouse mode is set
- E. a mode line is incorrectly set

Answer: C

QUESTION 142 What line in the `/etc/inittab` file sets the runlevel a machine will enter when a graphical login is desired?

- A. `id:5:initdefault`
- B. `si:5:sysinit:/etc/rc.d/rc.sysinit`
- C. `x:5:respawn:/etc/X11/prefdm -no daemon`
- D. `d) # 5 - X11`

Answer: A

QUESTION 143 What environment variable is used to remotely display another machine's X session on yours?

- A. DISPLAY
- B. XSESSION
- C. SCREEN
- D. TTY
- E. None of the above

Answer: A

QUESTION 144 You want to configure user quotas for the `/home` file system. You've installed the quota packages.

What else needs to be done to enable the file system's quotas? Choose all that apply.

- A. add `usrquota` to the `/etc/fstab` options column
- B. run the `quota` on command
- C. run the `quota check -avug` command
- D. edit the user's quota settings
- E. remount the file system

Answer: A, B, C, D, E

QUESTION 145 What file should you edit to exclude directories from being indexed by the `slocate` command?

- A. `/etc/slocatedb.conf`
- B. `/etc/default/slocate`
- C. `/etc/slocate.conf`
- D. `/etc/updatedb.conf`
- E. `/etc/sysconfig/updatedb.conf`

Answer: D

QUESTION 146 You need to create a symbolic link in the current user's home directory named `Certkiller` to the file `/data/foobar`. Choose the command that will accomplish this.

- A. `link .Certkiller /data/foobar`
- B. `ln /data/foobar $HOME/Certkiller`

- C. `ln -s /data/foobar ~/Certkiller`
- D. `file --link ./Certkiller /data/foobar`
- E. None of the above

Answer: C

QUESTION 147 Which of the following file system types causes the least impact when upgrading an Ext2 file system?

- A. Ext3
- B. ReiserFS
- C. JFS
- D. XFS
- E. VFS

Answer: A

QUESTION 148 What command can find the program file "bar" and its associated man pages and any existing source files, but not return all files that have "bar" in the command name or path?

- A. `whereis`
- B. `find`
- C. `locate`
- D. `apropos`
- E. `whatis`

Answer: A

QUESTION 149 According to the File system Hierarchy Standard, what directory trees are considered optional on a system's root file system? Choose all that apply.

- A. `/mnt`
- B. `/root`
- C. `/usr`
- D. `/var`
- E. `/opt`

Answer: C, D, E

QUESTION 150 What command with options will show the currently mounted file systems usage in kilobytes?

- A. `df -k`
- B. `df -h`
- C. `du -k`
- D. `du -h`
- E. `du -s`

Answer: A

QUESTION 151 You need to alter the permissions on the directory `/home/mrking` and all its contents to match the following permissions.

`drwxr--r--`

Which of these commands with options and arguments will accomplish this? Choose two.

- A. `chmod 0744 /home/mrking -R`

- B. `chmod 744 /home/mrking/*`
- C. `chmod -R u=rwx,g=r,o=r /home/mrking`
- D. `chmod u+rwx,g+r,o+r /home/mrking`

Answer: A, C

QUESTION 152 What is the simplest and most direct command to check the integrity of an Ext2 file system?

- A. `fsck.ext2`
- B. `fsck -t ext2`
- C. `e2fsck`
- D. `ext2fsck`
- E. None of the above

Answer: C

QUESTION 153 If a file is symlinked to with a link name of file2, and that file is deleted, what happens to the contents of the file?

- A. The contents still exist, and can be reached with file2
- B. The contents are gone, leaving file2 orphaned
- C. The file can be retrieved with `undelete -f file2`
- D. File2 is another name to the original, and the contents are still there

Answer: B

QUESTION 154 Which utility on a system will report any excessive file system space remaining with very few inodes still available?

- A. `fsck`
- B. `debugfs`
- C. `sync`
- D. `showfiles`
- E. soft links

Answer: A

QUESTION 155 What options will allow a normal user to mount and then unmount a file system without needing assistance from the root user?

- A. `user` and `users` in the `/etc/fstab`
- B. `user` and `users` in the `/etc/default/`
- C. `user` and `users` in the `/etc/vfstab`
- D. `user` and `users` in the `/etc/mnttab`
- E. `usrquota` and `grpquota` in the `/etc/fstab`

Answer: A

QUESTION 156 What two things does the `/etc/fstab` file contain references to?

- A. File Systems
- B. Mount Points
- C. User Options
- D. File System Defaults
- E. File System Permissions

Answer: A, B

QUESTION 157 Which of the following are executed ONLY during a Login session

- A. /etc/profile
- B. /etc/bashrc
- C. ~/.bashrc
- D. ~/.bash_profile
- E. ~/.bash_logout

Answer: A, D

QUESTION 158 Which of the following are executed during a non-login shell?

- A. /etc/profile
- B. /etc/bashrc
- C. ~/.bash_profile
- D. ~/.bashrc
- E. ~/.bash_logout

Answer: B, D, E

QUESTION 159 In which file are you likely to find the global setting for the umask and ulimit?

- A. /etc/profile
- B. /etc/bashrc
- C. /etc/bash_profile
- D. ~/.bashrc
- E. ~/.bash_profile

Answer: A

QUESTION 160 In which file are you likely to find the settings for umask, path, and ulimit on a per user basis?

- A. /etc/profile
- B. /etc/bashrc
- C. ~/.bash_profile
- D. ~/.bashrc

Answer: C

QUESTION 161 Which of the following is true about the XF86Config file. Select all that apply?

- A. Can set the screen resolution settings
- B. Can set the bits per pixel (color depth) setting
- C. Includes keyboard and mouse selections
- D. Includes information on which window manager to run
- E. Contains information on where fonts are located

Answer: A, B, C, E

QUESTION 162 What is the correct syntax to remove Certkiller entirely from a Debian System including configuration files?

- A. dpkg -r Certkiller
- B. dpkg --remove Certkiller
- C. dpkg --kill Certkiller
- D. dpkg -R Certkiller

E. dpkg --purge Certkiller

Answer: E

QUESTION 163 How do you use dpkg to verify the status of an installed package Certkillerpkg? Select two.

- a) dpkg -s Certkillerpkg
- b) dpkg -S Certkillerpkg
- c) dpkg -stat Certkillerpkg
- d) dpkg --stat Certkillerpkg
- e) dpkg --status Certkillerpkg

Answer: A, E

QUESTION 164 Which pair of dpkg options are equivalent and what do they do?

- A. -C and --configure they reconfigure an unpackaged package
- B. -C and --clear-avail they erase existing information about what packages are available
- C. -A and --audit they update information about what packages are available
- D. -C and --audit they provide resource consumption information on installed packages
- E. -C and --audit they search for partially installed packages

Answer: E

QUESTION 165 Which is a valid /etc/fstab entry

- A. fs1:/proc /mnt/fs1 nfs defaults 9 9
- B. /mnt/fs1 fs1:/proc nfs defaults 0 0
- C. fs1:/home /mnt/fs1 nfs defaults 0 0
- D. /mnt/home fs1:/home nfs defaults 0 0
- E. /home:fs1 /mnt/fs1 nfs defaults 0 0

Answer: C

QUESTION 166 What will happen when the following command is issued?

rpm -Uvh file

- A. The rpm file will be verified
- B. The installed package will be upgraded with the package in file, with verbose output
- C. The installed package may be upgraded with the package called file, giving verbose output and hash marks to show installation
- D. An error will occur as a package specifier was not included in the command line

Answer: C

QUESTION 167 Which of the following modems cannot be used on linux systems

- A. ISDN TA
- B. Cable modems
- C. Analogue modems
- D. PCI modems
- E. Win modems

Answer: E

QUESTION 168 When partitioning a disk with more than 1024 cylinders, which of the following could affect the systems ability to boot?

- A. Location of LILO on disk
- B. Location of /boot on disk
- C. Location /var on disk
- D. Disk transfer rate
- E. Disk seek time

Answer: B

QUESTION 169 What happens when ldconfig is executed?

- A. The binary index file (cache) of library locations is rebuilt
- B. The text index file of library locations is rebuilt
- C. make is run to rebuild the libraries who's source code has changed
- D. The disk is scanned for libraries to include in the index
- E. Nothing, unless the libraries have been recompiled since ldconfig was last run.

Answer: A

QUESTION 170 Where is the quota information for users of volume /home stored?

- A. /etc/sysconfig/quota/quota.home.user
- B. /etc/quota/quota.home.user
- C. /home/quota.home.user
- D. /home/quota.user
- E. /home/quota.home.group

Answer: D

QUESTION 171 What is the purpose of setting the SUID? Choose all that apply.

- A. Allows any user to run a executable program with the permissions of the owner of the program
- B. Allows any user to run a program with the permissions of the group of the program
- C. Everyone can edit the files that are created but only root and owner can delete them.
- D. To keep programs that are needed constantly in non-swappable RAM
- E. To cause a program opened in one X virtual pane to follow the user's focus to other panes

Answer: A, D

QUESTION 172 How can you set the SGID on a file called CertKiller Examiner?

- A. chmod u+s Certkillerexaminator
- B. chmod g+s Certkillerexaminator
- C. chmod o+s Certkillerexaminator
- D. chmod u+t Certkillerexaminator

Answer: B

QUESTION 173 How many devices excluding the controller can be on an 8 bit SCSI card?

- A. 6
- B. 8
- C. 9
- D. 16
- E. 7

Answer: E

QUESTION 174 How many devices can be installed on a 16 bit SCSI excluding the controller?

- A. 8
- B. 10
- C. 12
- D. 16
- E. 15

Answer: E

QUESTION 175 Which steps are necessary to compile and install a source code program? Choose the least amount possible.

- A. Extract source
- B. edit makefile
- C. ./configure
- D. make
- E. make install

Answer: A, C, D, E

QUESTION 176 Which command cannot normally be executed by a non-root user when compiling an application?

- A. make
- B. makefile
- C. ./configure
- D. make install

Answer: D

QUESTION 177 What is the correct format for a proper command in the shell?

- A. Option Argument Command
- B. Command Argument Option
- C. Command Option Argument

Answer: C

QUESTION 178 What is the result of the following command?

command > file1.out 2>&1

- A. Redirects stderr to file1.out
- B. Redirects the stderr to the same location as the stdout.
- C. Redirects stdout to the screen and stderr to file.out
- D. Redirects all the output to the same location as the stderr

Answer: B

QUESTION 179 What will the command "kill -HUP 1354" do? Select all the apply

- A. The same as kill -9 1354
- B. The same as kill 15 1354
- C. The same as kill -15 1354
- D. The same as kill -SIGHUP 1354
- E. The same as kill -1 1354

Answer: D, E

QUESTION 180 What would the command "rpm --all matches rpmname" do?

- A. Remove all packages named all matches
- B. Remove all packages with the package name rpmname
- C. Remove all packages regardless of name

Answer: B

QUESTION 181 Which command will output the exit status of the previous command (a 1 or a 0)?

- A. echo \$?
- B. echo \$1
- C. echo \$EXIT
- D. exit status

Answer: A

QUESTION 182 Select all the ways of exiting and saving a vi session.

- A. :wq
- B. :w
- C. :ZZ
- D. Shift ZZ
- E. :x
- F. :exit

Answer: A, D, E

QUESTION 183 You have an old computer that you have set up to connect to the Internet with an external 56K modem but are unable to establish a connection of greater than 9600bps.

What is the most likely source of the problem?

- A. Winmodems are not supported in Linux.
- B. The UART is not capable of handling more than 9600bps.
- C. The serial port is not recognized by the kernel.
- D. The modem is not configured to use the correct IRQ.

Answer: B

QUESTION 184 Which of these commands will list the shared libraries used by the KDE application kpanel?

- A. ldd kpanel
- B. /usr/lib kpanel
- C. kdd /opt/kde/bin/kpanel
- D. ldd /opt/kde/bin/kpanel
- E. ldconfig /opt/kde/bin/kpanel

Answer: A

QUESTION 185 Which utility can you call to find out what shared libraries a program is using?

- A. ldd
- B. ld.so
- C. modprobe
- D. ldconfig

E. ld-linux.so

Answer: A

QUESTION 186 You are building a server that will undergo many hardware and operating system upgrades. The server is the file server for all users on your 100 user network. Which directory should have its own mount point and/or hard drive?

- A. /boot
- B. /sbin
- C. /home
- D. /etc

Answer: C

OR /DEV if available choice.

QUESTION 187 Which of the following is a typical rule for allocating swap space for a Linux installation?

- A. Use 25% of available drive space for a swap partition.
- B. Use 10% of available drive space for a swap partition.
- C. Use 50% of total RAM for the size of a swap partition.
- D. Use 200% of total RAM for the size of a swap partition.
- E. Use 128MB on each hard disk in the system for swap.

Answer: D

QUESTION 188 You have a system that uses LILO from the Master Boot Record. You have just recompiled a new kernel. You already have a backup kernel setup to boot from LILO so you overwrite your existing kernel with new kernel image using the same name and location.

When you reboot, you find the system does not boot.

What is likely to be the problem?

- A. The new kernel image is above the 1024 cylinder and therefore cannot be loaded.
- B. You did not update your /etc/lilo.conf file to boot the new kernel.
- C. You need to boot the new kernel with a boot floppy to restore the old kernel.
- D. You reboot before re-installing LILO in the Master Boot Record.

Answer: A

QUESTION 189 You have compiled a program from source successfully, but you are getting permission errors when you try to install the binaries.

What is most likely the problem?

- A. Both rpm and dpkg need to be run as root.
- B. You have the wrong permissions set on the /usr/bin directory.
- C. The wrong prefix was used during the configuration or was not properly defined for the compile stage.
- D. The binaries need to be installed into directories that need root privileges to write to them.

Answer: D

QUESTION 190 Which of the following contains typical targets of a Makefile?

- A. Prefix, exec_prefix, bindir, mandir
- B. CFLAGS, CPPFLAGS, LIBS, LDFLAGS
- C. PATHS, DESTDIR, MANPAGES, CONFIGFILES

D. clean, test, install, uninstall

Answer: B

QUESTION 191 You want to examine the changelog for the installed package "postfix".

Which command will display the changelog?

A. rpm -Vc postfix

B. rpm -qpil postfix

C. rpm --changelog postfix

D. rpm -q --changelog postfix

E. rpm -qa --changelog postfix

Answer: D

QUESTION 192 Which RPM command would produce the following output

Name : xwhois Relocations: (not relocatable)

Version : 0.3.7 Vendor: Certkiller

Release : 1 Build Data: Fri 06 Aug 1999 09:29:07 AM EDT

Install date : (not installed) Build Host: desktop.infohvy.com

Group : Application/Internet Source RPM: (none)

Size : 74057 License: GPL

Packager : Ryan Weaver <ryanv@Certkiller.com>

URL : http://www.goatnet.ml.org/software.html

Summary : X Windows Whois Tool

Description: xwhois is a small and fast query tool for the whois service. (rfc954)

xwhois-0.3.7.tar.gz

xwhois.spec

A. rpm -qpil xwhois-0.3.7-1.src.rpm

Answer: A

QUESTION 193 After a minor security incident you are instructed by your lead sys-admin to verify the RPM's installed on a running system.

Which command will create a complete report which you can analyze for changes which may be security related?

A. rpm -Va >report

B. rpm -Qavy >report

C. rpm -Vqt --nomd5 >report

D. rpm --check files >report

E. rpm -Va --no files >report

Answer: A

QUESTION 194 Your lead sysadmin has asked you to add a second NIC to a Linux machine.

Which of the following commands would be best to determine which interrupts are currently in use on this machine?

A. cat /proc/ioports

B. cat /proc/interrupts

C. cat /proc/memory info

D. which interrupts

E. tail /var/log/messages

Answer: B

QUESTION 195 You need to know where all the configuration files for the installed package named "postfix" are located.

Assuming it was installed with rpm, which command will list this information for you?

- A. rpm -qc postfix
- B. rpm -Vc postfix
- C. rpm --config postfix
- D. rpm -listconfig postfix
- E. rpm -qa --config postfix

Answer: A

QUESTION 196 You are about to install a new program on an RPM based Linux system.

Which of the following would be the best way to accomplish this?

- A. Get the source code in a tarball and install from that source.
- B. Get a source RPM and use rpm to install it.
- C. Use rpm to install the program's binaries from an RPM package.
- D. Use cp to extract the binaries from a source RPM and use rpm to install those sources.

Answer: C

QUESTION 197 You have just typed the following three commands and got the following output:

```
prompt> echo $PATH
/usr/bin:/usr/local/bin:usr/sbin:opt/kde/bin
prompt> pwd
/home/anna/games
prompt> ls
game1 game2 game3
```

You want to run the program game1, but get the response that it is not found.

What did you forget to do?

- A. To type ./game1 rather than game1.
- B. To switch the directory /home/anna first.
- C. To unset your PATH before running the program.
- D. To set execution permissions for the program game1.

Answer: A

QUESTION 198 You have a file with the following contents:

```
allan
bart
ceasar
alicia
beatrice
cecilia
```

What single command could you use to list the file contents in reverse order? (Include only the command without options or arguments)

Answer: tac

QUESTION 199 After starting vi to edit an existing text file, you press 'A' (shift +a). This will let you:

- A. Insert text at the end of the current file.
- B. Insert text at the end of the current sentence.
- C. Insert text after your current cursor position.
- D. Insert text at the end of the file.
- E. Insert text at the end of your current paragraph.

Answer: B

QUESTION 200 You are writing text in vi. Now you want to save your changes and exit.

Which two sequence of inputs will accomplish this?

- A. esc XX
- B. ctrl :w!
- C. esc zz
- D. esc :wq!
- E. ctrl XX

Answer: D

QUESTION 201 Which of these commands would report how many total accounts (including special accounts) there are?

- A. count /etc/passwd
- B. nl /etc/passwd | head
- C. wc --users /etc/passwd
- D. wc --lines /etc/passwd
- E. expand --lines /etc/passwd

Answer: D

QUESTION 202 What command could be used to get a hierarchical view of all the processes running on the system without requiring your to provide any switches or options?

Answer: top

QUESTION 203 You run the following commands:

```
[user@prompt]$ nice -n 1 program1
```

```
[user@prompt]$ nice -n 5 program2
```

```
[user@prompt]$ nice -n 10 program3
```

Which of the program started will have the highest priority?

- A. program1
- B. program2
- C. program3

Answer: A

QUESTION 204 You have a SCSI system with five SCSI hard disks. You add another SCSI hard disk to your system and the system no longer boot, nor is the boot loader loaded.

What is the most likely cause of this problem?

- A. There are too many devices on the chain.
- B. The boot disk needs a different SCSI ID,

- C. The new disk is conflicting with the SCSI adapter.
- D. The new SCSI drive is conflicting with the IDE boot drive.
- E. The new SCSI drive needs a different SCSI ID.

Answer: E

QUESTION 205 You want to redirect the last 30 lines of a file to another file. What single command would best fit your needs?

Answer: tail

Explanation: exact is: tail *n30 "file name"

QUESTION 206 What symbol can be placed at the end of a line to indicate that the command continues on the next line?

- A. /
- B. \
- C. ;
- D. |
- E. :

Answer: B

QUESTION 207 Which two programs will allow you to change the priority of a program already running? (Choose two)

- A. top
- B. nice
- C. niceit
- D. renice
- E. chnice

Answer: B, D

QUESTION 208 Which command removes all subdirectories in /tmp, regardless of whether they are non-existent or in use?

- A. del /tmp/*
- B. m -rf /tmp
- C. rm -Ra /tmp/*
- D. rm -rf /tmp/*
- E. delete /tmp/*,*

Answer: D

QUESTION 209 The _____ command is typically used to search files for a specified string.

Answer: grep

QUESTION 210 What utility would use to remove/display columns from each line of a file?

- A. pwd
- B. col
- C. cut
- D. tail

E. extract

Answer: C

QUESTION 211 After executing the following command line, what will be the contents of the file myout.txt?

```
echo \"test king\" | cat > myout.txt
```

A. Cert killer

B. "Cert killer"

C. Cert killer cat

D. the file is empty

Answer: B

QUESTION 212 You are writing a script to automate some tasks. You would like to be able to have a log of everything that you see printed to your console, yet you want to be able to see the output on the console as well. What textutils command would typically be used to accomplish this?

Answer: tee

QUESTION 213 Which line below would count the total number of lines with the word "Certkiller" in /var/log/maillog?

A. wc -l 'Certkiller /var/log/maillog'

B. for "Certkiller" in [maillog (count) +1]

C. wc -l /var/log/maillog | grep 'Certkiller'

D. cat /var/log/maillog | grep 'Certkiller' | wc -l

E. cat /var/log/maillog | grep 'Certkiller' | wc -r

Answer: D

QUESTION 214 In the command 'test < king | Certkiller'.

A. The stdout from the command Certkiller is saved to the file test.

B. The stdout from the command test is saved to the file Certkiller.

C. The command Certkiller receives its stdin from the stderr of test.

D. The command Certkiller receives its stdin from the stdout of test.

E. The command king receives its stdin from the contents of the file Certkiller.

Answer: D

QUESTION 215 The _____ daemon is needed to establish a PPP link to another computer?

Answer: pppd

QUESTION 216 To keep a process running after you logged out, you start it with the command:

A. nohup

B. fg

C. live

D. sh

Answer: A

QUESTION 217 To locate all files that are less than 3 days old, you use the _____ -mtime -3 command.

Answer: find

QUESTION 218 How can you generate a report on disk usage and quotas for all file systems which are defined in /etc/mtab to be read-write with quotas.

- A. quotarep -a
- B. repquota /dev/hd*
- C. repquota -a
- D. quotarep /dev/hd*

Answer: C

QUESTION 219 You have a Linux system with a 100GB ext2 partition containing large amounts of data. To minimize the boot time, you decide to convert it to a journaling file system.

Which journaling file system would be easiest to convert the partition to (without destroying existing data)?

- A. resiserfs
- B. vfat
- C. ext3
- D. xfs

Answer: C

QUESTION 220 If you set the umask to 022, by default what permissions will your files have?

- A. 0220
- B. 0557
- C. 0644
- D. 0755

Answer: C

QUESTION 221 What type of information is found in the /etc/fstab file?

- A. Information about mounted file systems.
- B. Information about hard disks such as cylinders and heads.
- C. Information about file systems and mount points.
- D. Information about file systems types such as super block offset
- E. Information about the consistency of each currently mounted file system.

Answer: C

QUESTION 222 You installed a new experimental kernel and found that one of your ext2 partitions no longer functions. You tried unsuccessfully to repair it.

What program can you use to interactively debug the file system?

- A. e2fsck
- B. tune2fs
- C. debugfs
- D. tine2fs
- E. dumpe2fs

Answer: C

QUESTION 223 You want to make sure certain directories are excluded when you update your locate database file.

Where would you typically store this configuration?

- A. /etc/locatedb.conf

- B. /etc/slocatedb.conf
- C. /etc/searchdb.conf
- D. /etc/updatedb.conf

Answer: D

QUESTION 224 What would cause a system to report having excess free space but very few available inodes?

- A. Too many hard links are in use on /home.
- B. A user has created many very small files.
- C. fsck hasn't been run on /home in a while.
- D. Too many symbolic links are in use on /home.
- E. The disk needs to be synced before running df.

Answer: D

QUESTION 225 Which of the following commands may be used to view PCI devices seen by the Linux kernel? (Choose two)

- A. less lspci
- B. less /dev/pci
- C. less /proc/pci
- D. less /proc/devices/pci
- E. lspci | less

Answer: C, E

QUESTION 226 Which entry in /etc/fstab will allow any user to mount and unmount /dev/cdrom?

- A. /dev/cdrom /cd ro,noauto,unhide, all iso9660 0 0
- B. /dev/cdrom /cd iso9660 ro,noauto,nonroot 0 0
- C. /dev/cdrom /cd iso9660 ro,user,noauto,unhide 0 0
- D. /dev/cdrom /cd iso9660 ro,user,noauto,unhide 0 0
- E. /dev/cdrom /cd iso9660 ro,noauto,defaults 0 0

Answer: C

QUESTION 227 You have the following file:

```
-rwxrwxr-x 1 foo root 0 Feb 23 07:48 /bin/foo
```

Which of the following commands will change the owner of the file /bin/foo from the foo user to the bar user without affecting group ownership?

- A. chown /bin/foo bar
- B. chown bar /bin/foo
- C. chown bar.foo /bin/foo
- D. chown.foo.bar /bin/foo

Answer: C

QUESTION 228 Which of the following programs can be used to find the foo program in the PATH and associated man pages, but not list every file containing foo on the system?

- A. which
- B. search
- C. slocate
- D. where

E. whereis

Answer: A

QUESTION 229 What does the command "ln test king" typically do?

- A. It will create a symbolic link from test to king.
- B. It will create a hard link from king to test.
- C. It will create a symbolic link from king to test.
- D. It will create a copy of the file test in king.

Answer: B

QUESTION 230 You are preparing to mount a new ext3 partition.

What command would you use to check the file system for errors before mounting it? (Include only the command without path, options, or arguments)

Answer: e2fsck

QUESTION 231 What utility is used to verify the integrity of a file system? (Do not specify path or parameters)

Answer: fsck

QUESTION 232 Your unmask is set to 002. If you create a new file, what will the permission of the new file be?

- A. -rw-rw-r--
- B. rwxrwx-w-
- C. -----w-
- D. rwxrwxr-x

Answer: A

QUESTION 233 What must be added to the following to enable group quotas for /usr?

```
/dev/hda2 /usr ext2 defaults 1 1
```

Answer: grpquota

QUESTION 234 You have just set up the X Display Manager.

What file is typically used as the primary configuration file for XDM?

- A. xdm.config
- B. XF86Config
- C. xdm.conf
- D. Xsetup
- E. xdm-config

Answer: E

QUESTION 235 You are the administrator for all desktop systems at your company. You do not have a desktop standard and the users are free to use any window manager they choose.

Which of the following methods would be easiest to add a menu item to all users' main menu?

- A. There is no easy solution to this problem.
- B. Use rsync to synchronize all menus with a central server.
- C. Write a script that adds the menu item and have users run it.

- D. Add the changes to the `/etc/default/main-menu` configuration file.
- E. Use your package manager to upgrade all the packages at once.

Answer: C

QUESTION 236 You have a USB storage device that you cannot get working. You have enabled all appropriate USB options in the latest 2.2 kernel but still cannot get your device working. What is the most likely cause of the problem?

- A. You have not configured your `usb.usermap` properly.
- B. You are using the wrong kernel for this type of device.
- C. The USB device is not USB 2.0 compliant.
- D. There is a USB resource conflict.

Answer: B

Section B

QUESTION 1 Type the command line including switches to convert and install a Red hat package named `package.rpm` on a Debian system?

Answer: `alien -i package.rpm`

Alternative correct answer: `alien --install package.rpm`

QUESTION 2 Type the simplest command with switches to unpack a compressed archive named `file1.tar.gz`?

Answer: `tar -xzf file1.tar.gz`

Alternative correct answers:

`tar xzf file1.tar.gz`

`tar xzf file1.tar.gz`

QUESTION 3 You need to remove the package `Certkiller` regardless of dependencies, type the command with switches that will do this?

Answer: `rpm -e Certkiller --nodeps`

Alternative correct answers: `rpm -e --nodeps Certkiller`

QUESTION 4 Type the command will identify the ip address range used by a NIC?

Answer: `cat /proc/ioports`

QUESTION 5 Type the shortest command including switches, to remove the installed Red hat Package named `packagename` from the system.

Answer: `rpm -e packagename`

QUESTION 6 You need to replace all instances of the word `Certkiller` with `Certkiller` in a file called `file.txt`, and send the output to a file named `Certkiller.txt`. Type the simplest command string to accomplish this.

Answer: `sed 's/Certkiller/Certkiller/g' file.txt > Certkiller.txt`

QUESTION 7 Type the command line that will list information, and all file locations on the installed package `my package`?

Answer: rpm -qil my package

Alternative correct answers: rpm -qli my package

QUESTION 8 Type the command line to check the installed package my package for any configuration file changes since install?

Answer: rpm -V my package

QUESTION 9 Type the simplest RPM command to list where the package file Certkiller.rpm will install its files

Answer: rpm -qpl Certkiller.rpm

Alternative correct answer: rpm -qlp Certkiller.rpm

QUESTION 10 What is the full path including the filename of the configuration file that stores the locations of all library files on the system?

Answer: /etc/ld.so.conf

QUESTION 11 On boot, your system shows messages that mention library file errors.

What command should you type (command only) to attempt to fix the library errors?

Answer: ldconfig

QUESTION 12 What command will display the needed libraries for the program myprog1 to run?

Answer: ldd myprog1

QUESTION 13 Type in the command line that will execute cmd2 regardless of exit status of cmd1. Assume these commands are on the systems PATH and the command names are cmd1 and cmd2.

Answer: cmd1;cmd2

Alternative correct answers:

cmd1 ; cmd2

cmd1; cmd2

cmd1 ;cmd2

QUESTION 14 Type in the command line that will display the partitions on just the Secondary Slave drive in your system.

Answer: fdisk -l /dev/hdd

QUESTION 15 What would be the device name of the 2nd SCSI disk on your system? Include the full path to the device file

Answer: /dev/sdb

QUESTION 16 What is the device file for the first logical drive in the extended partition of the Secondary Master IDE drive? Include the full path and filename.

Answer: /dev/hdc5

QUESTION 17 Type the full command line to begin partitioning the second SCSI drive on your system using the most common disk partitioning tool.

Answer: fdisk /dev/sdb

QUESTION 18 Type in the device file including path for the second serial port.

Answer: /dev/ttyS1

QUESTION 19 What is the IRQ of COM1?

Answer: 4

QUESTION 20 What is the IRQ of COM3?

Answer: 4

QUESTION 21 What is the IRQ of COM2?

Answer: 3

QUESTION 22 Type in the device file and full path to first serial port.

Answer: /dev/ttyS0

QUESTION 23 Type in the IO address of device /dev/ttyS3

Answer: 02e8

Alternative correct answers:

02e8h

02E8h

02E8

2e8

2E8

QUESTION 24 What is the device file and full path for the LPT1 port?

Answer: /dev/lp0

QUESTION 25 Type in just the numeral of the IRQ most likely to conflict on a system that has both a sound card and second LPT port.

Answer: 5

QUESTION 26 What is the full path and filename of the LPT2 port?

Answer: /dev/lp1

QUESTION 27 Type in the VI command line that would open the file mytestfile.txt and line number it?

Answer: vi +"set number" mytestfile.txt

Alternative correct answers:

-vi mytestfile.txt +"set number"

-vi "+set number" mytestfile.txt

-vi mytestfile.txt "+set number"

QUESTION 28 Type in the variable name that controls the size of the command line history. (Type the variable as it would be used on the command line.)

Answer: \$HISTSIZE

QUESTION 29 Type in the Variable name of the variable that stores the location of the command line history file. (Type the variable as it would be used on the command line.)

Answer: \$HISTFILE

QUESTION 30 Type in just the name of the default file that the command line history is stored in for a logged in user.

Answer: .bash_history

QUESTION 31 You are building a system administration shell script and always want a particular line to read a file named Certkiller1.txt that exists in the home directory of every user, regardless of who the user is. What would be the full path including the filename for this file, for the current user?

Answer: ~/Certkiller1.txt

Alternative correct answer: \$HOME/Certkiller1.txt

QUESTION 32 Type in the file name and full path of the configuration file where you would set the variable HISTSIZE for all users of the system.

Answer: /etc/profile

QUESTION 33 Type in just the name of the command that allows you to edit the command history, and will execute the contents of the buffer when exited.

Answer: fc

QUESTION 34 Type in the full path and name of the file that you would edit to change the default startup runlevel of the system so that it starts an X session on boot up instead of a text mode session.

Answer: /etc/inittab

QUESTION 35 Type the command and argument that would cause the default permissions on newly created files to be set as:

rw- r-- r--

Answer: umask 022

Alternative correct answer: umask 0022

QUESTION 36 You wish to start a process and run it in the background. The binary executable is my binary, and it's in your path. Type in the command in its simplest form to do this.

Answer: my binary &

QUESTION 37 You have back grounded a job called big Certkiller.

When you type jobs and the command line it comes back with the following info.

jobs

[1] Running job1

[2] - Running big Certkiller

[3]+ Stopped job5

Type the command any switch(es) that would bring big Certkiller to the foreground.

Answer: fg %2

QUESTION 38 You wish to see the processes that are taking up CPU resources and their PID numbers. Type in the command that would do this including the options/arguments to cause a refresh every second.

Answer: top -d 1

Alternative correct answers: top -d1

QUESTION 39 The process big Certkiller is out of control, and efforts to cleanly stop it fail.

You have executed a ps command and it displays the following info

PID TTY TIME CMD

3541 pts/0 10:10:10 big Certkiller

3558 pts/0 00:00:00 ps

What command should you type to absolutely stop the runaway process?

Answer: kill -9 3541

QUESTION 40 What is the IO Address of the second serial port

Answer: 02f8

Alternative correct answer:

02F8

02F8h

02f8h

2f8

2F8

2f8h

2F8h

QUESTION 41 What command line tool can be used to display the window attributes of an X window. Type in the command line without flags or path.

Answer: xwininfo

QUESTION 42 You wish to edit the file 'mytextfile' with the VI editor and search for the string 'Certkiller'.

Type in the command line to open the file and highlight the first instance of Certkiller, (and any others).

Answer: vi +/Certkiller mytextfile

Alternative correct answer: vi mytextfile +/Certkiller

QUESTION 43 You wish to copy 3 lines down from your cursor position into the and append it to the b buffer.

Type the key combination to do this.

Answer: "B3yy

QUESTION 44 In the VI editor you wish to paste the contents of the b buffer to the position of the cursor.

What key combination would you type.

Answer: "bp

Alternative correct answers: "Bp

QUESTION 45 You wish to match instances of the word 'Many' that are at the beginning of a line in the vi editor.

What is the key combination to do this? Include the character to indicate a search in VI, and type the command

as if you were in Command Mode in VI.

Answer: /[^]Many

QUESTION 46 You wish to search for lines in VI that end with the string 'happy' Input the keystrokes to achieve this, including the vi search character.

Answer: /happy\$

QUESTION 47 You wish to match the character string v2.1 v2.2 v2.3 through to v2.9 within VI. Type the search string to achieve this.

Answer: /v2\[1-9]

QUESTION 48 From the LILO: or Boot: prompt you wish to start the kernel named linux and set the machine at run level 1. Type the command line to do this?

Answer: linux 1

Alternative correct answers:

linux s

linux S

linux single

QUESTION 49 You wish to know what the previous runlevel the system was in. Type in the command to show this.

Answer: runlevel

QUESTION 50 What command will remove all files named core in the home directories of users (/home), that are more than 7 days old? Type in the simplest command that would do this, without any prompting to delete the files.

Answer: find /home -mtime +7 -name core -exec rm -f {} \;

QUESTION 51 What is the variable name that holds the terminal capabilities variable, which is usually set to vt100?

Type the variable exactly as it would be used at the command line.

Answer: \$TERM

QUESTION 52 You wish to cut the 3rd and 7th fields from a colon (:) delimited text file called 'myCertkiller' and display them on the screen. Type the command that would do this?

Answer: cut -d : -f 3,7 myCertkiller

Alternative correct answers:

QUESTION 53 You wish to find out the full path of the binary executable "cmd1". Type just the command that will show the first instance of the command.

Answer: which cmd1

QUESTION 54 You wish to enable remote X access for the hosts: host1, host2 and host3.

Type in the command and any needed arguments to do this.

Answer: xhost +Host1 Host2 Host3

QUESTION 55 You wish to move all files and directories from within /home/john to the directory /home/Certkiller.

Type in the command line that would do this?

Answer: `mv /home/john/* /home/Certkiller`

Alternative correct answer: `mv /home/john/* /home/Certkiller/`

QUESTION 56 You wish to copy the full contents of the /home/jack directory and all subdirectories to the /home/king directory.

Type in the simplest command to do this.

Answer: `cp -R /home/jack/* /home/king`

QUESTION 57 What must you type immediately after adding new fonts to an X window system, to make them available to the system?

Answer: `mkfontdir`

QUESTION 58 Type in the command that would start an application to check for color depth of an X window.

Answer: `xwininfo`

QUESTION 59 What is the name of the point to point protocol daemon that is used when connecting with a modem?

Answer: `pppd`

QUESTION 60 What is the name of the X configuration tool that runs in text mode from the command line, and has a large number of questions?

Answer: `xf86config`

QUESTION 61 What is the name of the X configuration tool that runs in a simplified X-like environment?

Answer: `XF86Setup`

QUESTION 62 What is the name of the X configuration tool that runs in graphical text mode?

Answer: `Xconfigurator`

QUESTION 63 You have a package called `debianpkg.deb` and wish to convert it to an rpm.

Type the command line that will do this for you including switches.

Answer: `alien -r debianpkg.deb`

Alternative correct answer: `alien --to-rpm debianpkg.deb`

QUESTION 64 You wish to install a package named `package.deb` using the `apt-get` tool. Type the simplest command line to do this.

Answer: `apt-get install package.deb`

QUESTION 65 What is the name and full path to the location of the `dpkg` database?

Answer: `/var/lib/dpkg`

QUESTION 66 Type in the command line to upgrade a package using the apt-get command. The package name is package1.

Answer: apt-get upgrade package1

QUESTION 67 Type in the command to update the apt-get database with new or updated packages.

Answer: apt-get update

QUESTION 68 What is the location including the full path to where apt-get stores its downloaded packages?

Answer: /var/cache/apt/archives

QUESTION 69 You wish to install a debian package using dpkg called debianpackage.deb. Give the simplest command line to do this.

Answer: dpkg -i debianpackage.deb

Alternative correct answer: dpkg --install debianpackage.deb

QUESTION 70 What file must be put in the root of a file system for quotas to be enabled for users?

Answer: quota.user

Alternative correct answer: aquota.user

QUESTION 71 What command on an rpm-based system will upgrade any existing packages on a system, but not add any packages? Type just the command and switch(es).

Answer: rpm -F

QUESTION 72 What command on an rpm-based system will upgrade any existing packages on a system, and add any packages needed? Type just the command and switch(es).

Answer: rpm -U

QUESTION 73 Type only the name of the file or utility will show you the last system bootup messages.

Answer: dmesg

QUESTION 74 What 3 letter command will show you the values set by the /etc/profile script file for the entire system?

Answer: env

QUESTION 75 What 3 letter command will show you the values set by the /etc/bashrc script file for the entire system?

Answer: set

QUESTION 76 You are the root user of a system, and need to gather quota information about all users on the system.

Type the command along with any options and arguments to accomplish this.

Answer: repquota -a

QUESTION 77 On a standard Linux system as a normal user, what umask value will cause your file to be created with the following permissions ?

drwxr-x--- 2 username group 512 Mar 6 11:16 dir1

-rw-r----- 1 username group 0 Mar 6 11:16 file1

Answer: 027

Alternative correct answer: 0027

QUESTION 78 A file named "Certkiller1" is set with the following ownership:

Owner = foo

Group = bar

You want to change this file's ownership to be totally owned by foobar, what command string will accomplish this?

Answer: chown foo.bar Certkiller1

Alternative correct answer: chown foo:bar Certkiller1

QUESTION 79 You are experiencing errors and strange occurrences on an Ext2 file system, and want to debug it's operations. Type just the command that will most directly accomplish this.

Answer: debugfs

QUESTION 80 You are the system administrator for an X server, and experience attempts to initiate an unauthorized session from host21.

What command with options and arguments would deny access only to host21 for X sessions?

Answer: xhost -host21

QUESTION 81 What command or option will allow a program to continue operations after the invoking user has logged out of the system? Type just the answer.

Answer: nohup

QUESTION 82 What is the name and full path of the file that contains the system wide Environment variables and Startup programs?

Answer: /etc/profile

QUESTION 83 Type just the name of the file in a normal user's home directory that will set their local user environment and startup programs on a default Linux system.

Answer: .bash_profile

QUESTION 84 On a default Linux system, what is the name of the file that sets users aliases and functions?

Answer: .bashrc

QUESTION 85 What is the name and full path of the file that contains the system wide aliases and functions for the default Linux shell?

Answer: /etc/bashrc

QUESTION 86 What is the name of the file that runs on user logout, usually set to clear the screen?

Answer: .bash_logout

QUESTION 87 You are in your home directory. You have made changes to your .bash_profile and incorporated a modified PATH variable. Type in the command that will reread the .bash_profile and set the changes you have made.

Answer: source .bash_profile

Alternative correct answer: . .bash_profile

QUESTION 88 You wish to set your shell options so that the output from a redirect will NOT overwrite an existing file. Type the command including switches.

Answer: set -o noclobber

QUESTION 89 You wish to turn off the shell option that stops you overwriting existing files. Type the command in that will do this including switches.

Answer: set +o noclobber

QUESTION 90 You wish to list all files within your current working directory that are of the type ASCII, showing just a single line for each of those files. Type in the command string that would accomplish this.

Answer: file * | grep ASCII

Alternative correct answer: file * | grep -i ASCII

QUESTION 91 You wish to configure your soundcard. Type in the name of the Red Hat text/gui application that allows you to set/autodetect the sound card?

Answer: sndconfig

QUESTION 92 You wish to find out more information on a file e.g. Last accessed, Modified changed, Inode. What is the simplest command that would show this information for a file called Certkiller?

Answer: stat Certkiller

QUESTION 93 You wish to copy the entire contents of the /dev/hda1 to /dev/hdb1 block by block. Type in the simplest command that would do this?

Answer: dd if=/dev/hda1 of=/dev/hdb1

QUESTION 94 You have a floppy image called boot.img in your current working directory and wish to transfer this image to a floppy device /dev/fd0. Type in the simplest command that would do this?

Answer: dd if=boot.img of=/dev/fd0