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**Exam Code: LX0-101**

**Exam Name: CompTIA Linux+ [Powered by LPI] Exam 1**

**Last Update: Oct 03, 2013**

## Exam A

### QUESTION 1

Which of the following commands will find the string foo in the file file1.txt, regardless of foo being in upper or lower case letters?

- A. `cat file1.txt | grep -i foo`
- B. `cat file1.txt > grep -n foo`
- C. `grep -i foo | file1 .txt`
- D. `grep -n file1.txt < foo`
- E. `grep -n foo file1.txt`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

You have just set up the X Display Manager as your default display manager. What file should you edit to change the default background for it?

- A. `/etc/X11/xdm/Xsetup`
- B. `/etc/X11/prefdm`
- C. `/etc/X11/XF86Config`
- D. `/etc/X11/xdm.conf`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

You need to install a fax server. Which type of fax/modem should you install to ensure Linux compatibility?

- A. External Serial Fax/modem
- B. External USB Fax/modem
- C. Internal ISA Fax/modem
- D. Internal PCI Fax/modem

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

After a minor security incident you are instructed by your lead sys-admin to verify the RPMs installed on a running system. Which command will create a complete report that you can analyze for changes that may be security related?

- A. rpm -Va > report
- B. rpm -Qavy > report
- C. rpm -Vqt -nomd5 > report
- D. rpm -checkfiles > report
- E. rpm -VA nofiles > report

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

The command used to determine a file's type is

- A. type
- B. find
- C. file
- D. ls

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

Select the line that BEST represents what permissions the /etc/passwd file should have.

- A. -rw----- 1 root root 531 Jun 5 22:45 /etc/passwd
- B. -rw-r--r-- 1 root root 531 Jun 5 22:45 /etc/passwd
- C. -rw-r--r-- 1 1 1 531 Jun 5 22:45 /etc/passwd
- D. All answers listed are not correct.
- E. All answers listed are correct.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

What command should be invoked to give the user sally read and write, but not execute, access to the file strategy.txt using Extended ACL entries?

- A. setfacl -setperm sally:rw strategy.txt
- B. setfacl -m user::sally+rw strategy.txt
- C. setfacl -m user: sally; rw strategy.txt
- D. setfacl -setperm user:sally+rw strategy.txt

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

Which command will print out the attributes of the file foobar?

- A. ls -attrfoobar
- B. lsattr foobar
- C. printattr foobar
- D. fileattr foobar

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

You are preparing a new set of shared libraries in /usr/local/applib and you have written and compiled some code that uses these libraries. You have already performed an ldconfig, however the system still cannot find the shared libraries. What is most likely the cause of this?



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- A. You used the wrong compiler.
- B. You did not update your PATH variable.
- C. You compiled the code with wrong library.
- D. You forgot to put the library path in ld.so.conf.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

You are having problems with a particular font and you want to see if its directory is included in XF86Config. Which section contains this information?

- A. Paths
- B. Fonts
- C. Files
- D. Graphics

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

Which command will list all the files installed from the RPM package file named, vorbis-tools-1.1.i386.rpm?

- A. rpm -qf vorbis-tools-1.1.i386.rpm
- B. rpm -F vorbis-tools-1.1.i386.rpm
- C. rpm -pf vorbis-tools-1.1.i386.rpm
- D. rpm -ql vorbis-tools-1.1.i386.rpm
- E. rpm -qlp vorbis-tools-1.1.i386.rpm

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 12**

Your department decided to change the Gnome Display Manager's greeting. What configuration file should you edit?

- A. /etc/gnome/greeting
- B. /opt/gnome/share/greeting
- C. /etc/X11/gmd.conf
- D. /etc/X11/gdm/Init/Default

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 13**

What key combination is used to forcibly halt the X server in the event of the graphical session becoming unusable (eg., desktop manager or fullscreen application hanging)?

- A. press CTRL+ALT+DEL
- B. press CTRL+ALT+BACK\_SPACE
- C. press CTRL+ALT+DEL twice
- D. press CTRL+ALT+F1 then run

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

The system bell sound is annoying you. Which of the following can you use to change this and other userX

preferences?

- A. xset
- B. xconf
- C. xbell
- D. xmag
- E. xpref

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 15**

Which of the following commands will print the inode usage on each mounted filesystem?

- A. du -i
- B. df -i
- C. lsfs -i
- D. printfs -i

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 16**

In GRUB's configuration file an administrator finds the following line: root (hd1,4) Which of the following is the corresponding device name on a Linux system?

- A. /dev/hda4
- B. /dev/hda5
- C. /dev/hdb4
- D. /dev/hdb5

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 17**

While using the vi editor, you wish to move ahead one page. You should press the control key and:

- A. A
- B. D
- C. F
- D. U

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

You have created a really long letter and after you are done you notice that you used the name "Bob" many times but you forgot to capitalize it in many instances. Which command would replace "bob" with "Bob" in all instances and generate a new letter for printing?

- A. sed '/bob/Bob' letter >newletter
- B. sed s/bob/Bob/letter < newletter
- C. sed 's/bob/Bob' letter > newletter
- D. sed 's/bob/Bob/g' letter > newletter
- E. sed 's/bob. Bob/' letter > newletter

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

How can you turn off the group quota in /pub?

- A. quotaoff /pub
- B. quotaoff -gv /pub
- C. quotadown /pub
- D. rm /pub/quota.group

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

Which of the following lines from /etc/X11/XF86Config indicates what fonts can be found on a font server?

- A. FontPath= server
- B. Fonts "unix/: 7100"
- C. FontPath,unix/:7100"
- D. Fonts= server
- E. Fontserver = "servername"

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

What RPM command would show you detailed information for a package called openssh- 3.6.i386.rpm?

- A. rpm -showinformation openssh-3.6.i386.rpm
- B. rpm -showdetails -package openssh-3.6.i386.rpm
- C. rpm --query --info --package openssh-3.6.i386.rpm
- D. rpm -verify openssh-3.6.i386.rpm

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

Which command will create an ext3 filesystem on /dev/hda2?

- A. /sbin/mke2fs -d /dev/hda2
- B. /sbin/mke2fs -j /dev/hda2
- C. /sbin/mke2fs -m 3 /dev/hda2
- D. /sbin/mke2fs -c ext3 /dev/hda2

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

Which command will print line numbers before each line in a file?

- A. ln
- B. nl
- C. cat -n
- D. numline

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

Which RPM command will output the name of the package which installed the file /etc/exports?

- A. rpm -F /etc/exports
- B. rpm -qf /etc/exports
- C. rpm -KI /etc/exports
- D. rpm -qp /etc/exports
- E. rpm -qi /etc/exports

**Correct Answer:** B



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

How do you get a list of files that have been installed from a dpkg package?

- A. dpkg -l pkgname
- B. dpkg -C pkgname
- C. dpkg -s pkgname
- D. dpkg -S pkgname
- E. dpkg -L pkgname

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

You logged in as user tux1, but now you want to switch users to tux2 with tux2's environment. How would you do this?

- A. su tux2
- B. su -e tux2
- C. su - tux2
- D. su -m tux2
- E. su -f tux2

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Which of the following commands will print to standard out only the lines that do not begin with # (pound symbol) in the file foobar?

- A. /bin/grep ^# foobar
- B. /bin/grep -v ^# foobar
- C. /bin/grep #\$ foobar
- D. /bin/grep -v #\$ foobar

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

What does the following command do?  
cat '\$TEST'

- A. Displays a bash syntax error message.
- B. Displays the contents of the file named \$TEST if it exists.
- C. Waits for the user to enter text and then echos the text back.
- D. Displays the contents of the file named inside the back quotes.
- E. Displays the contents of the file named by the environment variable TEST.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

You are the system administrator for a consulting firm where several people use Linux as their desktop operating system. One of your users has installed a commercial publishing program that works under X on a variety of UNIX and Linux platforms. The user made a series of configuration changes regarding the initial window size, location and color. Now, he is having difficulty undoing these changes and is asking for your help. In which file would you think you would most likely find the configuration settings you are seeking to change?

- A. ~/.xinitrc
- B. ~/.xconfig
- C. ~/.Xdefaults
- D. ~/.XF86Config
- E. /etc/X11/XF86Config

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

What tool can you use to print shared library dependencies?

- A. ldconfig
- B. ldd
- C. libdep
- D. libpath
- E. ldev

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

All items are required to enable USB support on a Linux system EXCEPT:

- A. A kernel that has USB driver support.
- B. A USB 2.0 compatible device.
- C. A supported controller chip such as OHCI, UHCI, or EHCI.
- D. A kernel that supports hot-pluggable devices.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

You enter the command `date +%M`. What does the output show you?

- A. the current year
- B. the current month
- C. the current hour
- D. the current minute
- E. the current second

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 33

Keyboards and mice are members of which class of USB devices?

- A. Communication Device Class
- B. Human Interface Device Class
- C. Mass Storage Device Class
- D. Data Interface Device Class

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 34

You just started X for the first time and noticed that the display does not use the entire screen. What program can you use to fix this?

- A. `xvidtune`
- B. `xf86config`
- C. `XF86Setup`
- D. `tweakscreen`

**Correct Answer:** A

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 35**

Users may create and edit a configuration file in their home directory that can tell the X window system what window manager they wish it to start when they log in. What file is that?

- A. \$HOME/.wmrc
- B. \$HOME/.startx
- C. \$HOME/.Xdefaults
- D. \$HOME/.xserverrc
- E. \$HOME/.xinitrc

**Correct Answer:** E

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 36**

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 most likely the source 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.

**Correct Answer:** B

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 37**

Which of the following sed commands will replace all instances of the string foo with the string foobar changing the file file1.txt in place?

- A. sed 's/foo/foobar/g' file1.txt
- B. sed 's/foo/foobar/g' file1.txt > file1.txt
- C. sed 's/foo/foobar/g' file1.txt | file1.txt
- D. sed -i 's/foo/foobar/g' file1.txt
- E. sed -i 's/foo/foobar/g' file1.txt > file1.txt

**Correct Answer:** D

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

**QUESTION 38**

Which file should be edited to select the network locations from which Debian installation package files are loaded?

- A. /etc/dpkg/dpkg.cfg
- B. /etc/apt/apt.conf
- C. /etc/apt/apt.conf.d
- D. /etc/apt/sources.list
- E. /etc/dpkg/dselect.cfg

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

Which of the following command lines would an administrator use to restrict the GNU find command to searching a particular number of subdirectories?

- A. --max-dirs
- B. -dirmax
- C. -maxdepth
- D. -s
- E. -n

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

You have not run apt-get on a system for some time, but it has been run on the system before. What apt-get command would you run to download the latest list of packages, but not the packages themselves?

- A. apt-get build-dep
- B. apt-get mirror-select
- C. apt-get update
- D. apt-get upgrade
- E. apt-get dist-upgrade

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

Which of the following programs is typically used to query installed debian packages? (Please select TWO that apply).

- A. dpkg
- B. apt-cache
- C. apt-conf
- D. dselect

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 42

An administrator is experimenting with a binary in /tmp/foo.d that expects its configuration file at /etc/foo.conf. The administrator does not want to save it there, but use a symbolic link to /tmp/foo.d/foo.conf instead. Which of the following commands would accomplish this?

- A. ln -s /tmp/foo.d/foo.conf /etc/foo.conf
- B. ln /tmp/foo.d/foo.conf /etc/foo.conf
- C. ln -s /etc/foo.conf /tmp/foo.d/foo.conf
- D. ln /etc/foo.conf /tmp/foo.d/foo.conf

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 43

Pressing the Ctrl-C combination on the keyboard while a command is executing in the foreground sends which of following signal codes?

- A. 1 (SIGHUP)
- B. 2 (SIGINT)
- C. 3 (SIGQUIT)
- D. 9 (SIGKILL)
- E. 15 (SIGTERM)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 44

You have finished updating and resolving dependencies for some source code. What command should you run before recompiling the code into binary form?

- A. make clean
- B. make all
- C. make dep
- D. make install

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

You want to install a new software package, but it is only available in RPM format and you are running Debian Linux. Which of the following would help you to install it on your system?

- A. alien
- B. apt-conf
- C. dselect
- D. cpio

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

You are using an application that you want to appear on the screen of another machine. What environment variable would you have to set or edit to achieve this?

- A. DISPLAY
- B. REMOTE
- C. REMOTE\_XWINDOW
- D. SCREEN

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 47**

The command `mkfs -t ext3 -T largefile /dev/hdb1` creates what size of inode?

- A. 4 kilobyte
- B. 1 megabyte
- C. 2 megabyte
- D. 4 megabyte

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## **Exam B**

### **QUESTION 1**

The user john is no longer working for a company. To disable his account but not delete his information, what needs to be done?

- A. userdel john
- B. userdisable john
- C. Remove user john from /etc/shadow.
- D. Replace his password with \* in passwd
- E. Replace his password with a space in passwd.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 2**

What does the command mount -a do?

- A. It mounts the floppy disk for all users.
- B. It shows all mounted file systems.
- C. It opens /etc/fstab to edit.
- D. It mounts all file systems listed in /etc/fstab.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

Which chown command will change the ownership to foo and the group to bar on a file named biglist?

- A. chown foo/bar biglist
- B. chown -u foo -g bar biglist
- C. chown foo:bar biglist
- D. chown -user foo -group bar biglist

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 4**

A Makefile typically contains which targets?

- A. CFLAGS, CPPFLAGS, LIBS, LDFLAGS
- B. clean, install, uninstall
- C. PATHS, DESTDIR, LIBS, LDFLAGS



D. prefix, exec\_prefix, bindir, mandir

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

How many SCSI ids for peripherals can SCSI-1 support?

A. 5

B. 6

C. 7

D. 8

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

You installed a beta rpm package, but are experiencing some problems with it. How can you remove this package?

A. rpm -qe rpmname

B. rpm -v --remove rpmname

C. rpm -r rpmname

D. rpm -d rpmname

E. rpm -ev rpmname

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

Which file is used by ld.so to find libraries quickly without actually having to search the directories in its library path?

A. /etc/ld.so.cache

B. /etc/ld.so.conf

C. /etc/ld.so

D. /var/ld/cache

E. /var/.cache

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

When installing XWindows the monitor wasn't recognised but now a data sheet with its specification is available. Which xorg.conf section must be edited to specify the correct values for several variables?

- A. Screen
- B. Monitor
- C. Border
- D. Modeline
- E. Device

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

How can an administrator update a package only if an earlier version is currently installed on the system?

- A. rpm --update rpmname
- B. rpm -U rpmname
- C. rpm -F rpmname
- D. rpm --force rpmname
- E. rpm -u rpmname

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

User Joseph has successfully extracted and compiled a program from source code. Installing the binaries produces errors. What is the most likely reason?

- A. The source code was compiled for a different CPU.
- B. The permissions set in the /usr/bin directory are wrong.
- C. The binaries require root privileges to be installed
- D. The wrong prefix was used during configuration of the source code.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

Which of the following utilities would an administrator use to change how often a filesystem check was performed over an EXT2 filesystem (without losing any data stored on that filesystem)?

- A. mod2fs
- B. fsck
- C. tune2fs
- D. mke2fs
- E. fixe2fs

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

An installed package is broken. In order to go back to previous version of the same package which RPM option should be used?

- A. -replacefiles
- B. -replacepkgs
- C. -oldpackage
- D. -nodeps

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

What command will uninstall a package but leave its configuration files in case a package is reinstalled?

- A. none, no command will do this
- B. dpkg -s pkgname
- C. dpkg -L pkgname
- D. dpkg -P pkgname
- E. dpkg -r pkgname

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

The X program \_\_\_\_\_ is often used to make minor keyboard adjustments, like proper Backspace/Delete mapping.

- A. xkbmap
- B. kbdmap
- C. xmodmap
- D. modmap

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

When reading man pages, a lot of extra characters are shown on screen. Which of the following commands can help to deal with this problem?

- A. col
- B. grep
- C. more
- D. pg
- E. row

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

Which of the following is the proper device for the third partition, on the second hard disk, on the first IDE controller, on a PC system?

- A. /dev/hdb3
- B. /dev/hd1b3
- C. /dev/hdc1b3
- D. /dev/hdc1d2p3

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

In order to save and restore your sound card's configuration between sessions, the ALSA sound system uses what program?

- A. setalsa
- B. setsound
- C. soundctl
- D. alsactl
- E. alsaset

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

Where can lilo place boot information?

- A. The boot ROM
- B. The boot RAM
- C. The /boot partition
- D. The MBR on a hard drive

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

An administrator is planning a partition scheme for a new Linux installation. Which of the following directories should the administrator consider for separate partitions? (Select THREE).

- A. /etc
- B. /home
- C. /var
- D. /lib
- E. /tmp

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

Which of the following commands will list the quota for a specific user, foobar?

- A. repquota foobar
- B. quota foobar
- C. lsquota foobar
- D. printquota foobar

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

The files in the /etc/skel directory are used by the

- A. pwconv command.
- B. pwunconv command.

- C. useradd command.
- D. passwd command.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 22**

Which of the following words is used to restrict the records that are returned from a SELECT query based on a supplied criteria for the values in the records?

- A. LIMIT
- B. FROM
- C. WHERE
- D. IF

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 23**

What is pool.ntp.org?

- A. A deprecated feature for maintaining system time in the Linux kernel
- B. A website which provides binary and source packages for the OpenNTPD project
- C. A virtual cluster of various timeservers
- D. A community website used to discuss the localization of Linux

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

You are using an application that you want to appear on the screen of another machine. What environment variable would you have to set or edit to achieve this?

- A. DISPLAY
- B. REMOTE
- C. REMOTE\_XWINDOW
- D. SCREEN

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

Which bash option will prevent you from overwriting a file with a ">"?

- A. set -o safe
- B. set -o noglob
- C. set -o noclobber
- D. set -o append
- E. set -o nooverwrite

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

The system utility that automatically creates new log files and moves old ones is called what?

- A. newlog
- B. mvlog
- C. rotatelog
- D. logrotate

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Which ONE of the following lines from /etc/X11/xorg.conf indicates that fonts can be found on a font server?

- A. FontPath= server
- B. Fonts "unix:/7100"
- C. FontPath,unix:/7100"
- D. Fonts= server
- E. Fontserver = "servername"

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

You have just setup the X Display Manager as your default display manager. What file should you edit to change the default background for it?

- A. /etc/X11/xdm/Xsetup
- B. /etc/X11/prefdm

- C. /etc/X11/xorg.conf
- D. /etc/X11/xdm.conf

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 29**

Which THREE statements about crontab are true?

- A. Every user may have their own crontab.
- B. Changing a crontab requires a reload/restart of the cron daemon.
- C. The cron daemon reloads crontab files automatically when necessary.
- D. hourly is the same as "0 \* \* \* \*".
- E. A cron daemon must run for each existing crontab.

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 30**

Which of the following find commands will print out a list of suid root files in /usr?

- A. find /usr uid 0 perm +4000
- B. find user root +mode +s /usr
- C. find type suid username root d /usr
- D. find /usr ls \s\\* u root
- E. find /usr suid perm +4000

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 31**

To test a shell script called myscript, the environment variable FOOBAR must be removed temporarily. How can this be done?

- A. unset -v FOOBAR
- B. set -a FOOBAR=""
- C. env -u FOOBAR myscript
- D. env -i FOOBAR myscript

**Correct Answer:** C

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 32**

In the following command and its output,

```
echo $$  
12942
```

what is 12942?

- A. the process ID of the echo command
- B. the process ID of the current shell
- C. the process ID of the last command executed
- D. the process ID of the last backgrounded command

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

Which command will set the local machine's timezone to UTC?

- A. cat UTC > /etc/timezone
- B. ln -s /usr/share/zoneinfo/UTC /etc/localtime
- C. date timezone=UTC
- D. mv /usr/timezone/UTC /etc

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

Which file, when using Sendmail or a similar MTA system, will allow a user to redirect all their mail to another address and is configurable by the user themselves?

- A. /etc/alias
- B. /etc/mail/forwarders
- C. ~/.alias
- D. ~/.forward

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

On a dual boot system, every time the system is booted back into Linux the time has been set backward by two

hours. Which of the following commands will correct the problem so it will not occur again?

- A. ntpdate pool.ntp.org
- B. date -d 'two hours'
- C. hwclock --hctosys --localtime
- D. time --hwclock

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 36**

Each entry in a crontab must end with what character?

- A. tab
- B. space
- C. backslash
- D. newline

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

Which command should be added to /etc/bash\_profile to change the language of messages from an internationalised program to Portuguese (pt)? (Select TWO correct answers)

- A. export LANGUAGES=,lpt"
- B. export MESSAGE="pt"
- C. export LANG="pt"
- D. export LC\_MESSAGES="pt"
- E. export ALL\_MESSAGES=upt"

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 38**

What command should be used to print a listing of email in the system's mail queue?

- A. sendmail l
- B. lpq
- C. mailq
- D. mlq

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

What command do you use to create an OpenSSH authentication key?

- A. sshd
- B. ssh-agent
- C. ssh-keygen
- D. ssh-add

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

You need to push the CUPS printer HPLaserjet4, and you want to cancel all print jobs with a message, "hello". Which command will do this?

- A. cupsrejectc -r hello HPLaserjet4
- B. cupsreject p- m hello HPLaserjet4
- C. cupsdisable -cr hello HPLaserjet4
- D. cupsdisable -pm hello HPLaserjet4

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

A French user has installed the French language pack, but currencies are still being displayed with a leading '\$' sign in his spreadsheets. What must be done to fix this?

- A. Alter the locale.
- B. Set the timezone correctly.
- C. Edit /etc/currency.
- D. Reinstall the French language pack.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

What is NOT contained in the locale setting of the operating system?

- A. currency symbol
- B. language
- C. timezone
- D. thousands separator

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 43**

To prevent a specific user from scheduling tasks with at, what should the administrator do?

- A. Add the specific user to /etc/at.allow file.
- B. Add the specific user to [deny] section in the /etc/atd.conf file.
- C. Add the specific user to /etc/at.deny file.
- D. Add the specific user to nojobs group.
- E. Run the following: atd deny [user].

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 44**

Which command is used to display user resource limits?

- A. uname
- B. limit -a
- C. usrlmt
- D. ulimit

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 45**

Which commands can you use to change a user's password expiry information? (Choose THREE correct answers.)

- A. usermod
- B. passwd
- C. chattr
- D. chage
- E. chsh

**Correct Answer:** ABD

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

Which of the following programs uses the hosts.allow file to perform its main task of checking for access control restrictions to system services?

- A. tcpd
- B. inetd
- C. fingerd
- D. mountd
- E. xinetd

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 47**

In xorg.conf, which section is concerned with fonts?

- A. the Fonts section
- B. the Files section
- C. the xfsCodes section
- D. the Graphics section
- E. the modeline section

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 48**

Which of the following are commonly used Mail Transfer Agent (MTA) applications? (Please select THREE correct answers)

- A. postfix
- B. procmail
- C. sendmail
- D. exim
- E. smtpd

**Correct Answer: ACD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

The legacy program for sending files to the printer queues from the command line is:

- A. lpd
- B. lpr
- C. lpq
- D. lpp

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

The legacy program for listing files in the printer queues from the command line is:

- A. lpd
- B. lpr
- C. lpstat
- D. lpq

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## Exam C

### QUESTION 1

Which configuration file does sudo read when determining if a user is permitted to run applications with root privileges?

- A. /etc/groups
- B. /etc/passwd
- C. /etc/sudoers
- D. /etc/sudo.conf

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Which directory in a user's home contains configuration files and key rings for GPG?

- A. ~/gpg.d/
- B. ~/.gpg/
- C. ~/.gnupg/
- D. ~/gnupg/
- E. ~/.gpg.d/

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

When attempting to send a file to another user securely with GPG, which of the following actions must be done?

- A. Encrypt the file using your public key.
- B. Encrypt the file using their public key.
- C. Encrypt the file using your private key.
- D. Encrypt the file using their private key.
- E. Sign the file with your public key.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

Which command will print the exit value of the previous command to the screen in bash?

- A. echo \$?

- B. echo \$#
- C. echo \$exit
- D. echo \$status
- E. echo \$&

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

What output will the following command sequence produce?

```
echo '1 2 3 4 5 6' | while read a b c; do  
echo result: $c $b $a;  
done
```

- A. result: 3 4 5 6 2 1
- B. result: 1 2 3 4 5 6
- C. result: 6 5 4
- D. result: 6 5 4 3 2 1
- E. result: 3 2 1

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 6

What output will the following command seq 10 produce?

- A. A continuous stream of numbers increasing in increments of 10 until stopped.
- B. The numbers 1 through 10 with one number per line.
- C. The numbers 0 through 9 with one number per line.
- D. The number 10 to standard output.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 7

For accessibility assistance, which of the following programs is an onscreen keyboard?

- A. xkb
- B. atkb
- C. GOK
- D. xOSK



**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

Which of the following provides a nongraphical, text based interface for users who are visually impaired that can be used as a screen reader?

- A. easyspeech
- B. textconvert
- C. xscreen
- D. emacspeak

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

Which of the following commands will provide locale specific information about your system and its environment?

- A. loconfig
- B. getlocale
- C. locale
- D. tzconfig
- E. tzselect

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

Which of the following is the command used to deactivate a network interface?

- A. ifdown
- B. ipdown
- C. net
- D. netdown

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

Which of the following commands can be used to activate a specific network interface?

- A. ipup
- B. net
- C. ifup
- D. netup

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

Which of the following looks like a correct entry in the /etc/hosts file.

- A. localhost 127.0.0.1 localhost.localdomain
- B. localhost.localdomain localhost 127.0.0.1
- C. localhost localhost.localdomain 127.0.0.1
- D. 127.0.0.1 localhost.localdomain localhost
- E. localhost.localdomain 127.0.0.1 localhost

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 13

What output will the following command produce?

seq1 5 20

- A. 1  
6  
11  
16
- B. 1  
5  
10  
15
- C. 1  
2  
3  
4
- D. 2  
3  
4  
5
- E. 5  
10  
15  
20

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

Which of the following SQL statements will select the fields name and address from the contacts table?

- A. SELECT (name, address) FROM contacts;
- B. SELECT (name address) FROM contacts;
- C. SELECT name, address FROM contacts;
- D. SELECT name address FROM contacts;

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 15**

On a system running the K Display Manager, when is the /etc/kde4/kdm/Xreset script automatically executed?

- A. When KDM starts
- B. When a user's X session exists
- C. When KDM crashes
- D. When X is restarted
- E. When Xcrashes

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 16**

What is the purpose of the Sticky Keys feature in X?

- A. To assist users who have difficulty holding down multiple keys at once
- B. To prevent repeated input of a single character if the key is held down
- C. To ignore brief keystrokes according to a specified time limit
- D. To repeat the input of a single character

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 17**

Which of the following can the chage command NOT change?

- A. The number of days since January 1, 1970 on which the user's account will no longer be accessible
- B. The number of days since January 1, 1970 when the password can change
- C. The number of days since January 1, 1970 when the password was last changed
- D. The maximum number of days during which a password is valid
- E. The number of days of inactivity after a password has expired before the account is locked

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 18**

Which statements are true regarding the following syslog.conf configuration directive?

\*.err;kern.notice;auth.notice /dev/console

(Select THREE correct answers)

- A. Severity crit messages from all facilities will be directed to /dev/console
- B. Severity notice messages from the auth facility will be directed to /dev/console
- C. Severity notice messages from the kern facility will be directed to /dev/console
- D. Severity err messages from the mail facility will be directed /dev/console
- E. Severity notice messages from all facilities will be directed to /dev/console

**Correct Answer:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 19**

Which of the following is NOT a Mail Transport Agent?

- A. exim
- B. postfix
- C. sendmail
- D. qmail
- E. mail

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 20**

Which statement is true regarding the following /etc/resolv.conf file?

searchexample.com

127.0.0.1

208.77.188.166

- A. There is a syntax error.
- B. If DNS queries to the localhost fail, the server 208.77.188.166 will be queried.
- C. example.com will be appended to all host lookups.
- D. The DNS servers at 127.0.0.1 and 208.77.188.166 will be queried in a round robin fashion.
- E. The DNS server with the shortest ping time will be queried first. If the lookup fails, the second server will be queried.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 21**

What is the purpose of the dig command?

- A. To adjust a directory's hidden permissions
- B. To search for files on the filesystem
- C. To adjust a file's hidden permissions
- D. To perform hostname lookups
- E. To ping all known hosts on the current subnet

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 22**

While performing a security audit, you discover that a machine is accepting connections on TCP port 184, but it is not obvious which process has the port open. Which of the following programs would you use to find out?

- A. traceroute
- B. strace
- C. debug
- D. nessus
- E. lsof

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 23**

What is the highest numbered TCP /IP port?

- A. 2047
- B. 32767
- C. 65535
- D. 131071

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

You are working on a server that has multiple ethernet network interfaces, and you wish to find out the IP address assigned to the eth1 interface. Which of the following commands will print the necessary information?

- A. `ipconfig /dev/eth1`
- B. `ethconfig d eth1`
- C. `ifconfig eth1`
- D. `prntconf eth1`

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 25**

Which of the following is the best way to list all defined shell variables?

- A. `env`
- B. `set`
- C. `env -a`
- D. `echo $ENV`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 26**

Which command allows you to make a shell variable visible to subshells?

- A. `export $VARIABLE`
- B. `export VARIABLE`
- C. `set $VARIABLE`
- D. `set VARIABLE`
- E. `env VARIABLE`

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 27**

When you start the X Window System, which series of programs and/or scripts would most closely describe the startup process?

- A. xdm > xinit > xinitrc > Xclients
- B. kde > xinitrc > xinit > Xclients
- C. startx > xinitrc > Xclients > kde
- D. startx > xinit > xinitrc > Xclients
- E. startx > xinit > Xclients > xinitrc

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 28**

Your department decided to change the Gnome Display Manager's greeting. What configuration file should you edit?

- A. /etc/gnome/greeting
- B. /opt/gnome/share/greeting
- C. /etc/X11/gmd.conf
- D. /etc/X11/gdm/Init/Default

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 29**

Your senior administrator asked you to change the default background of his machine, which uses XDM. Which file would you edit to achieve this?

- A. /etc/X11/xdm/Xsetup
- B. /etc/X11/xdm.conf
- C. /etc/X11/xdm/Defaults
- D. /etc/X11/defaults.conf

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 30**

You are running an email server configured with the default settings. In which directory will you commonly find the delivered mail for the user foo?

- A. /var/spool/mail
- B. /home/foo/mail
- C. /var/mail/spool

D. /var/users/mail

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 31

What entry can you add to the syslog.conf file to have all syslog messages generated by your system go to virtual console 12?

- A. \*.\* /dev/tty12
- B. /var/log/messages | /dev/tty12
- C. /dev/tty12
- D. syslog tty12
- E. mail.\* /dev/tty12

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

Which TWO of the following Class B IPv4 networks are reserved by IANA for private address assignment and private routing?

- A. 128.0.0.0
- B. 169.16.0.0
- C. 169.254.0.0
- D. 172.16.0.0
- E. 172.20.0.0

**Correct Answer:** DE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 33

Which of the following describes the Linux ping packet or datagram?

- A. IP packet with a packet type
- B. ICMP packet with a message type
- C. ICMP packet with a pay load
- D. UDP datagram with a protocol type
- E. UDP datagram with a payload

**Correct Answer:** B

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 34**

Which of the following lines would you find in the file /etc/nsswitch.conf?

- A. order hosts,bind
- B. 192.168.168.4 dnsserver
- C. hosts: files dns
- D. domain mycompany.com

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

Which of the following lines would you find in the file /etc/resolv.conf?

- A. order hosts,bind
- B. 192.168.168.4 dnsserver
- C. hosts: files,dns
- D. domain mycompany.com

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

You are looking into a new script you received from your senior administrator. In the very first line you notice a #! followed by a path to a binary. Linux will:

- A. ignore the script.
- B. use that binary to interpret the script.
- C. use that binary to compile the script.
- D. be replaced by that binary.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

Which of the following information is NOT provided in any output from the netstat utility?

- A. broadcast services
- B. interface statistics

- C. masquerading connections
- D. network connections
- E. routing tables

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 38**

What benefit does an alias provide?

- A. It provides faster lookups for commands.
- B. It prevents having to type long commands
- C. It hides what command you are running from others.
- D. It creates a local copy of a file from another directory.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 39**

What should the permission settings be for /etc/passwd and /etc/shadow?

- A. /etc/passwd: rwrr /etc/shadow: r
- B. /etc/passwd: r /etc/shadow: rwrr
- C. /etc/passwd: rwrr /etc/shadow: rwrr
- D. /etc/passwd: r /etc/shadow: r

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 40**

Which of the following is a valid location in the automount configuration, when a Windows share needs to be made available to the system?

- A. ://server/sharename
- B. :server/sharename
- C. \\server\sharename
- D. \\\server\sharename
- E. server:/sharename

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

What backup arrangement should be used for an intranet web server the contents of which is updated fairly regularly by different staff?

- A. Monthly full backups with the tape sent off-site.
- B. Weekly full backups with all tapes sent off-site.
- C. Daily full backups with all tapes sent off-site.
- D. Daily full backups with one tape sent off-site per week.
- E. Daily incremental backups with a weekly full backup tape sent off-site.

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

Before compiling a new kernel, what needs to be done?

- A. Configure the kernel options.
- B. Delete old kernel sources.
- C. Compile kernel modules.
- D. All of the above.
- E. Change to runlevel 1.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

How can DMA be enabled for the device /dev/hda?

- A. echo "1" >/proc/ide/hda/dma
- B. sysctl -w dev.ide.dma=1
- C. dma add /dev/hda
- D. hdparm -d 1 /dev/hda
- E. insmod dma dev=/dev/had

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

What command must be used to create an ext3 file-system?

- A. mkext3fs
- B. mkjfs
- C. mke3fs
- D. mke2fs
- E. mkext2fs

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 45**

Your routing configuration relies on eth0 being a 3com card that requires the 3c59x module. What line must be added to the modules configuration file, to ensure that eth0 always uses this module?

- A. eth0=3c59x
- B. set eth0 3c59x
- C. alias eth0 3c59x
- D. set eth0=3c59x
- E. alias eth0=3c59x

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 46**

During which stage of the boot process would this message be seen?  
ide\_setup: hdc=ide-scsi

- A. Daemon initialization and setup.
- B. Boot loader start and hand off to kernel.
- C. Hardware initialization and setup.
- D. Kernel loading.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 47**

During which stage of the boot process would this message be seen?

ide0: BM-DMA at 0xff00-0xff07, BIOS settings: hda:DMA, hdb:DMA

- A. Kernel loading.
- B. Hardware initialization and setup.
- C. Boot loader start and hand off to kernel.

D. Daemon initialization and setup.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 48**

When Human Interface Devices (HID) is being used, which of the following represents a USB mouse connected to the PC?

- A. /dev/ttyUSB0
- B. /dev/usb/mouse0
- C. /dev/ttyS0
- D. /dev/psaux
- E. /dev/input/mice

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

Which of the following commands can be used to access the content of a ramdisk file (/boot/initrd) used by the kernel at boot time?

- A. cp /boot/initrd /tmp/initrd.gz; gunzip initrd.gz; mount /tmp/initrd /mnt/
- B. mkinitrd -d /boot/initrd; mount /boot/initrd /mnt/ -o loop
- C. cp /boot/initrd /tmp/initrd.gz; mount /tmp/initrd /mnt/ -o loop
- D. cp /boot/initrd /tmp/initrd.gz; gunzip initrd.gz; mount /tmp/initrd /mnt/ -o loop
- E. mount /boot/initrd /mnt/ -o loop; cat /mnt

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## Exam D

### QUESTION 1

A Linux server is running in single user mode, but the problem that existed before is now fixed. What command is most appropriate to restore the server to service?

- A. telinit 2
- B. shutdown -r now
- C. reboot
- D. shutdown -h now
- E. telinit 3

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Which of the following must be included in the syslogd configuration file, so that ONLY kernel related messages with the priority crit are reported?

- A. kern.=crit
- B. kern.krit
- C. kern.-crit
- D. kern.\*=crit
- E. kern.crit

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

One of the IDE hard drives in a server is transferring data very slowly. What command must be run to enable DMA on it?

- A. hdparm -d 1 /dev/hda
- B. hdparm -dma /dev/hda
- C. hdparm -d /dev/hda1
- D. hdparm -d /dev/hda
- E. hdparm -dma /dev/hda1

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

Which command would you use to apply a diff file to an original?

- A. cat diff-file << kernel
- B. patch < diff-file
- C. cat diff-file >> kernel
- D. patch << diff-file
- E. patch > diff-file

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

The swap usage on a system needs to be checked. Which TWO commands can be used to display a swap usage summary?

- A. swapconfig
- B. cat /proc/swaps
- C. swapon -s
- D. swapshow
- E. cat /etc/fstab

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

Which of the following best describes the format of the /etc/fstab file?

- A. device name; mount point; mount options; filesystem type; dump filesystem; fsck order"
- B. device name; filesystem type; mount point; mount options; dump filesystem; fsck order
- C. mount point; filesystem type; device name; mount options; dump filesystem; fsck order
- D. mount point; device name; filesystem type; mount options; dump filesystem; fsck order
- E. device name; mount point; filesystem type; mount options; dump filesystem; fsck order

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

A 2.6.9-ac1 kernel would be

- A. someone's patch to a stable kernel.
- B. someone's patch to an unstable kernel.
- C. a stable kernel.
- D. an unstable kernel.

E. an alpha kernel.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 8**

Which RAID level provides the most redundancy?

- A. RAID4
- B. RAID5
- C. RAID1
- D. RAID0

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 9**

A system has one hard disk, configured as master and connected to the primary IDE controller, and one CD writer, configured as slave and connected to the secondary IDE controller. If the system is correctly configured, which device is used to represent the CD writer?

- A. /dev/scd0
- B. /dev/scd1
- C. /dev/hdb
- D. /dev/hdd
- E. /dev/sr1

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 10**

Which of the following configuration lines will export /usr/local/share/ to nfsclient with read-write access, ensuring that all changes are written straight to the disk?

- A. nfsclient:/usr/local/share/:rw,sync
- B. /usr/local/share nfsclient(rw,sync)
- C. nfsclient(rw,sync) /usr/local/share
- D. /usr/local/share nfsclient:rw:sync
- E. /usr/local/share nfsclient(rw)

**Correct Answer:** B

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 11**

To remove the patch patch-2.4.28.tar.bz2 from a kernel source tree, the command that must be used is:

- A. bunzip2 ../patch-2.4.28.tar.bz2 | patch -rp1
- B. bunzip2 -c ../patch-2.4.28.tar.bz2 | patch -Rp1
- C. bunzip2 -c ../patch-2.4.28.tar.bz2 | unpatch -p1
- D. bunzip2 ../patch-2.4.28.tar.bz2 | unpatch -p1
- E. bunzip2 ../patch-2.4.28.tar.bz2 | patch -Rp1
- F. bunzip2 -c ../patch-2.4.28.tar.bz2 | patch -rp1

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 12**

How must Samba be configured, so that it can check passwords against the ones in /etc/passwd and /etc/shadow?

- A. Run smbpasswd to convert /etc/passwd and /etc/shadow to a Samba password file.
- B. Set the parameters "encrypt passwords = yes" and "password file = /etc/passwd".
- C. Set the parameters "encrypt passwords = yes", "password file = /etc/passwd" and "password algorithm = crypt".
- D. It is not possible for Samba to use /etc/passwd and /etc/shadow.
- E. Delete the smbpasswd file and create a symbolic link to the passwd and shadow file.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 13**

Which THREE statements concerning automounter are true?

- A. For each entry in auto.master, a separate automounter daemon is started.
- B. The automounter service does not rely on the kernel configuration.
- C. Changes to auto.master require automounter to reload its configuration.
- D. The autofs service does not need to be restarted after changing automounter map files.
- E. Only one entry in master map can refer to each map file.

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

Which of the following entries are NOT valid in /etc/raidtab?

- A. superblock-persistent
- B. chunk-size
- C. nr-spare-disks
- D. nr-raid-disks

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

To allow more than one client username to share one local account on a Samba server, which of the following configuration directives can be used?

- A. users
- B. username map
- C. force user
- D. client map
- E. map users

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

What happens when the Linux kernel can't mount the root filesystem when booting?

- A. An error message is shown and the administrator is asked to specify a valid root filesystem to continue the boot process.
- B. An error message is shown, stating that the corresponding kernel module couldn't be loaded.
- C. An error message is shown, showing which device couldn't be mounted or informing that init couldn't be found.
- D. An error message is shown and the system boots in maintenance mode.
- E. An error message is shown and the system reboots after a keypress.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

What command should be used to find out what PCI devices can be seen, without querying the kernel?

- A. lspci -v
- B. lspci -p

- C. lspci -x
- D. lspci -b
- E. lspci -s

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

The server has two network cards. The driver for the first card is the module 8139too and the driver for the second card is the module ne2k-pci. How is it possible to ensure that the card using the 8139too driver is detected before the card using the ne2k-pci driver?

- A. modprobe 8139too dev=eth0; modprobe ne2k-pci dev=eth1
- B. install mod 8139too; install mod ne2k-pci
- C. modprobe eth0=8139too, eth1=ne2k-pci
- D. ifconfig modadd eth0=8139too, eth1=ne2k-pci
- E. modprobe8139too; modprobe ne2k-pci

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 19

What command is used to permanently set the options in the kernel when making a boot disk?

- A. rdev
- B. lilo
- C. dd
- D. blockdev
- E. kconfig

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 20

A new PCMCIA network card is not functioning correctly. To troubleshoot this, the socket information should be checked. How can this be done?

- A. cardctl info
- B. cardctl -s
- C. cardmgr -s
- D. cat /var/lib/pcmcia/stab
- E. cat /proc/pcmcia

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 21

When bash is invoked as an interactive login shell, which of the following sentences is true?

- A. It first reads and executes commands in /etc/bashrc and then does the same for /etc/profile.
- B. It ignores /etc/profile and only reads and executes commands in ~/.bashrc.
- C. It first reads and executes commands in /etc/profile and then does the same for ~/.bash\_profile, ~/.bash\_login and ~/.profile.
- D. It first reads and executes commands in /etc/profile and then does same for ~/.bash\_profile and ~/.bashrc.
- E. It reads and executes commands in ~/.bashrc only if /etc/profile or another initialisation script calls it.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 22

After changing the default runlevel in the init configuration file, the system boots in a different than the intended runlevel. Where else could this different runlevel be defined?

- A. In /etc/runlevel under default.
- B. In the boot loader configuration file.
- C. Nowhere. The init configuration file wasn't properly modified.
- D. In the initrd image file.
- E. In the /etc/rc.d/rc.local file.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 23

The new file server is a member server of the Windows domain foo. Which TWO of the following configuration sections will allow members of the domain group all to read, write and execute files in /srv/smb/data?

- A. [data] path = /srv/smb/data writelist= @foo+all force group = @foo+all create mask = 0770 directory mask = 0770
- B. [data] comment = data share path = /srv/smb/data writelist= @foo+all force group = @foo+all create mask = 0550 directory mask = 0770
- C. [data] comment= data share path = /srv/smb/data writelist= @foo+all force group = @foo+all 52 directory mask = 0770
- D. [data] comment = data share path =/srv/smb/data writelist= @foo+all force group = @foo+all create mask = 0770 directory mask = 0770
- E. [data] comment = data share path =/srv/smb/data writelist= @foo+all force group = all create mask = 0550 directory mask = 0770

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

A machine is running in single user mode and as such, not all file-systems are accessible. What command must be run to make all of the other file-systems listed in /etc/fstab accessible?

- A. mountfs -a
- B. mount -all
- C. mount -a
- D. mountfs -all

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 25**

What needs to be done to enable 32 bit I/O transfer mode for (E)IDE disks, on a system running a 2.4 series Linux kernel?

- A. This feature isn't supported in 2.4 series kernels.
- B. The hdparm utility must be used.
- C. The Linux kernel must be recompiled.
- D. The sysctl utility must be used.
- E. This feature is enabled by default in 2.4 series kernels.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 26**

What command is used to create an ISO9660 filesystem that can be properly accessed from a Windows 95/98 machine?

- A. mkisofs -D -T -o backup.iso /home/joe
- B. mkisofs -d -T -r -o backup.iso /home/joe
- C. mkisofs -l -o backup.iso /home/joe
- D. mkisofs -J -T -r -o backup.iso /home/joe
- E. mkisofs -j -T -o backup.iso /home/joe

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

You have written a little startup script (/usr/local/bin/startup.sh) that should automatically execute when entering runlevel 3. According to the standards, how can this best be achieved?

- A. `chmod 700 /usr/local/bin/startup.sh; cp /usr/local/bin/startup.sh /etc/init.d/rc3.d/S99Startup.sh`
- B. `chmod 700 /usr/local/bin/startup.sh; cd /etc/init.d/rc3.d; ln -s S99Startup.sh /usr/local/bin/startup.sh`
- C. `chmod 700 /usr/local/bin/startup.sh; cd /etc/init.d/rc3.d; ln -s /usr/local/bin/startup.sh S99Startup.sh`
- D. `chmod 700 /usr/local/bin/startup.sh; cd /etc/init.d/rc3.d; ln -s /usr/local/bin/startup.sh`
- E. `chmod 700 /usr/local/bin/startup.sh; cd /etc/init.d/rc3.d; ln /usr/local/bin/startup.sh`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

What script is included with the kernel source to patch a kernel?

- A. `update-kernel`
- B. `patch-kernel`
- C. `apply-patch`
- D. `patch`

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

Which option is used in the Samba configuration file to set which files and directories are neither visible to or accessible by the clients?

- A. `mangle names`
- B. `hide dot files`
- C. `hide special files`
- D. `hide files`
- E. `veto files`

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

When building an RPM package, which `rpmbuild` option is used to unpack sources and apply patches before proceeding with the next steps?

- A. -bb
- B. -be
- C. -bs
- D. -ba
- E. -bp

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 31

The Samba configuration file uses the parameter read only=yes. Which of the following is equivalent?

- A. writeaccess=no
- B. read write=no
- C. browseable=no
- D. write only=no
- E. writeable=no

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

A pre-compiled module has been moved to /lib/modules/<kernel-version>, but 'modprobe -a <modulename>' fails to load it. What needs to be done to enable usage of this module?

- A. make modules\_install must be run.
- B. depmod must be run.
- C. The kernel must be re-compiled.
- D. modules.conf or modprobe.conf must be edited.
- E. The system must be rebooted.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 33

What command is used to display a file in octal format? (Please enter only a single command and do not enter duplicate answers in this field.)

**Correct Answer:** /usr/bin/hexdump

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

Which environment variable do you have to set up to use shared libraries that are not in the standard search path?

**Correct Answer:** LD\_LIBRARY\_PATH

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

To prevent users from being able to fill up the / partition, the \_\_\_\_\_ directory should be on a separate partition if possible because it is world writeable.

**Correct Answer:** /tmp

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

The \_\_\_\_\_ partition is used for virtual memory.

**Correct Answer:** swap

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

You suspect that a new ethernet card might be conflicting with another device. Which file should you check within the /proc tree to learn which IRQs are being used by which kernel drivers?

**Correct Answer:** interrupts

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

You have written a custom tool on your local system. Following the File Hierarchy Standard (FHS), where should you install the binaries to be available to all users on your system?

**Correct Answer:** /usr/local/bin

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

You are building a server that will be the file server for all users on your 100 user network. The server may have



many hardware and operating system upgrades. Which directory should have its own mount point and/or hard drive?

**Correct Answer:** /home

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 40

You are formatting a single hard disk for a Linux install. What is the maximum number of primary partitions you can create?

**Correct Answer:** four

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 41

The \_\_\_\_\_ command displays ISA plug-and-play devices resource information.

**Correct Answer:** pnpdump

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 42

What file in the /proc filesystem lists parameters passed from the bootloader to the kernel? (Please enter only a single command and do not enter duplicate answers in this field.)

**Correct Answer:** /proc/cmdline

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 43

Consider the following output:

```
prompt> myapp  
[1]+ Stopped myapp
```

This output was the result of the user pressing the keyboard combination of the Ctrl key and what letter key? Enter only the single (1) letter as your answer.

**Correct Answer:** z

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 44

Your ISP has given you an IP block for your use. The block is 192.168.112.64/26. If your network administrator uses the first usable IP for the router he's installed on your network, how many usable IPs do you have left? (Please enter the number and not a word)

**Correct Answer:** 61

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 45

The \_\_\_\_\_ command is used to print out the current date and time on the system.

**Correct Answer:** date

**Section:** (none)

**Explanation**

**Explanation/Reference:**

/bin/date

#### QUESTION 46

To exclude all log messages of a given logging facility, you should use a logging priority of \_\_\_\_\_ .

**Correct Answer:** none

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 47

What argument to the name flag of find will match files or directories beginning with a '.' (period)?

**Correct Answer:** .\*

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 48

What command is used to view pending jobs for the at command? (Do NOT specify path).

**Correct Answer:** atq

**Section:** (none)

**Explanation**

**Explanation/Reference:**

at

#### QUESTION 49

In an xinetd config file, which attribute specifies the network address that will be used to offer the service?

**Correct Answer:** bind

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

Which IP protocol is connectionless and unreliable?

**Correct Answer:** udp

**Section:** (none)

**Explanation**

**Explanation/Reference:**

udp/ip

## Exam E

### QUESTION 1

Which protocol uses two (2) TCP/IP ports one of them being port 20 for data transfer?

**Correct Answer:** ftp

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

You need to sync your hardware clock, which is on GMT, with your system clock, which you just updated with NTP. To do this, complete the following command:

\_\_\_\_\_ u systohc

**Correct Answer:** hwclock

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

To slave your NTP daemon to an external source, you need to modify the\_\_\_\_\_ variable in your /etc/ntp.conf file.

**Correct Answer:** server

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

You can run the\_\_\_\_\_ command to see active network and UNIX domain socket connections. (Please specify the command with no options or parameters)

**Correct Answer:** netstat

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 5

What command can be used to generate log entries of any facility and priority? (supply just the command name without a path)

**Correct Answer:** logger

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 6

You decide to use xinetd instead of inetd. Now, you need to transfer information from /etc/inetd.conf to another

file. Which file must be created or edited? (Please specify the full path)

**Correct Answer:** /etc/xinetd.conf

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 7

A user was not given permission to use the CRON scheduling system. What file needs to be modified to provide that access?

(Please specify the full path to file)

**Correct Answer:** /etc/cron.allow

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 8

Please specify the directory containing the configuration files for the CUPS printing system. (Provide the full path to the directory)

**Correct Answer:** /etc/cups

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 9

What word will complete an if statement in bash such as the following:

```
if[ x "$file" ]; then  
echo$file
```

\_\_\_\_\_

(Please provide missing word only)

**Correct Answer:** fi

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

What word is missing from the following SQL statement? Update tablename\_\_\_\_\_ fieldname ='value' where id =909;

**Correct Answer:** set

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

What word is missing from the following SQL statement?

select count(\*) \_\_\_\_\_ tablename;

**Correct Answer:** from

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 12**

What is the command to delete the default gateway from the system IP routing table? (Please specify the complete command with arguments)

**Correct Answer:** route del default

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: route del default ip, route del default, route del 0.0.0.0, /sbin/route del default ip, route del 0.0.0.0, /sbin/route del 0.0.0.0, /sbin/ip route del default /sbin/ip, route del 0.0.0.0

**QUESTION 13**

By default, which directories contents will be copied to a new user's home directory when the account is created, passing the -m option to the useradd command?

**Correct Answer:** /etc/skel

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

An administrator wants to determine the geometry of a particular window in X, so she issues the \_\_\_\_\_ metric command and then clicks on the window.

**Correct Answer:** /usr/bin/xwininfo

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

Which file specifies the user accounts that can NOT submit jobs via at or batch? (Provide the full path and filename)

**Correct Answer:** /etc/at.deny

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

The system's timezone may be set by linking /etc/localtime to an appropriate file in which directory?

**Correct Answer:** /usr/share/zoneinfo

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 17

After configuring printing on a Linux server, the administrator sends a test file to one of the printers and it fails to print. What command can be used to print the status of the printer's queue? (Provide only the command, without any options or parameters)

**Correct Answer:** lpq

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

An administrator is configuring a secured webserver, however connecting to https://127.0.0.1 is not working. She runs netstat -ntl, which returns the following output:

```
tcp 0 0 0.0.0.0:80 0.0.0.0:* LISTEN
```

What port should be listening before a successful connection is possible? (Provide only the numerical value of the port)

**Correct Answer:** 443

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 19

Given the following line from /etc/nsswitch.conf:

```
hosts: files mdns4_minimal [NOTFOUND=return] dns mdns4
```

By default, which file will be queried first for hostname lookups? (Provide the full path and filename)

**Correct Answer:** /etc/hosts

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 20

Which file lists which users can execute commands using sudo? (Provide the full path and filename)

**Correct Answer:** /etc/sudoers

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

An administrator has added the following line to /etc/inittab in order to disable the ability to reboot a Debian system by pressing the Control + Alt + Delete keys simultaneously:

ca:12345:\_\_\_\_\_:bin/echo "Rebooting disabled"

**Correct Answer:** ctrlaltdel

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

Which option, when passed to the gpg command, will enter an interactive menu enabling the user to perform key management related tasks? (Provide only the option)

**Correct Answer:** edit-key

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

Which file contains a list of services and hosts that will be denied by a TCP Wrapper such as tcpd? (Please enter the full path)

**Correct Answer:** /etc/hosts.deny

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

The \_\_\_\_\_ command is used to add a group to the system.

**Correct Answer:** groupadd

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

The \_\_\_\_\_ command is used to modify or set the password expiration for a user.

**Correct Answer:** chage

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

You are logged in as root. What command do you run to find out what groups user bruno belongs to?



**Correct Answer:** groups bruno

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 27**

Which command with all parameters and arguments, can be used by root to erase the cron job list for the user fred?

**Correct Answer:** crontab -u fred -e

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 28**

With which command can the reserved blocks on /dev/hda1 be displayed? (Enter the command with all parameters and/or options)

**Correct Answer:** tune2fs -l /dev/hda1

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 29**

After configuring a new 2.4 series kernel, all dependencies, such as include files, need to be created. How can this be achieved? Please enter the complete command.

**Correct Answer:** makedep

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 30**

For interpreting system rc scripts, a shell is most commonly used. Please enter the first line found in such scripts.

**Correct Answer:** #!/bin/sh

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 31**

You have configured a workstation to boot in runlevel 4, but you now find that the X server will not start correctly and the machine will not allow local access. What would be the most effective command to run at the LILO prompt to regain local access to the machine, when the last known working kernel image was linux?

**Correct Answer:** linux3

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

The administrator notices that a 10GB ext2 file-system used only for data storage has approximately 540MB reserved for root. Which command can be used to change the file-system parameters to make all of the partition available to users, WITHOUT losing data? Please enter only the command without path, options or parameters.

**Correct Answer:** tune2fs

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

By default, which file will Samba use to store the user passwords? (Please enter only the filename without the path)

**Correct Answer:** smbpasswd

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

After a lot of write operations, the changes should be written to the disk. Please enter the appropriate command, without the path or any options or parameters, that would achieve this.

**Correct Answer:** mkisofs

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

Which program lists information about files opened by processes and produces output that can be parsed by other programs?

**Correct Answer:** lsof

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

Which keyword is used in the /etc/inittab file to define the default system runlevel?

**Correct Answer:** initdefault

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

You have installed some new libraries, but these are not available to programs and are not listed by ldconfig -p. What file should the path to the libraries be added to, before running ldconfig?

**Correct Answer:** /etc/ld.so.conf

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

Consider the following/etc/fstab file:

```
/dev/hda1 swap swap defaults 0 0  
/dev/hda2 / ext2 defaults 1 1  
/dev/hda3 /home ext2 defaults 1 2  
none/proc proc defaults 0 0  
/dev/fd0 /media/floppy vfat user,noauto 0 0
```

What command can an ordinary (non-root) user use to mount a floppy disk in this system? (Please enter the command with all parameters and/or options)

**Correct Answer:** mount /media/floppy

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

Your newly-compiled kernel can not find any modules it needs to load. What command was missed when compiling and installing the kernel?

**Correct Answer:** makemodules\_install

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

On an NFS server, the portmap, nfsd and\_\_\_\_\_daemons must be running. Please enter the missing daemon below.

**Correct Answer:** mountd

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

In which subdirectory of /proc is information about PC Cards, which are connected and recognised by a 2.6 kernel, stored? Please enter the complete path.

**Correct Answer:** /proc/bus/pccard

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 42**

Please enter the complete path to the main configuration file for syslogd, which logs system messages on Linux systems?

**Correct Answer:** /etc/syslog.conf

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 43**

Please enter the complete path to the main init process configuration file.

**Correct Answer:** /etc/inittab

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 44**

Which mount option must be used in the example /etc/fstab entry below, to ensure that a specific filesystem is not mounted when the system is booted?

/dev/hdd /media/cdrom iso9660 \_\_\_\_\_,ro 0 0

**Correct Answer:** noauto

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 45**

On a system with separate partitions for /, /usr, /var & /tmp, which filesystem can safely be mounted read-only?

**Correct Answer:** /usr

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 46**

Because of a bad BIOS LBA translation, a booting system displays an error instead of a LILO prompt. Complete the error message with the error number:

**Correct Answer:** 01

**Section:** (none)

**Explanation****Explanation/Reference:**

**QUESTION 47**

After a crash, the system needs to be booted into runlevel 1. Which option(s) must be typed at the LILO prompt to achieve this, assuming that the working kernel image is called 'linux'?

**Correct Answer:** linux single

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 48**

You are not sure whether the kernel has detected a piece of hardware in your machine. What command, without options or parameters, should be run to present the contents of the kernel ring- buffer?

**Correct Answer:** /bin/dmesg

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

When using the SysV init system, the file /etc/rc3.d/S55sshd is a symbolic link. Type the full path and file name to which this is linked.

**Correct Answer:** /etc/init.d/sshd

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

Configuration of X is complete and now the default runlevel can be changed from runlevel 3 to runlevel 5. In which of the following configuration files should this be done?

**Correct Answer:** /etc/inittab

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## Exam F

### QUESTION 1

Which command (without options) would you use to display how much space is available on all mounted partitions?

**Correct Answer:** /bin/df

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

What command with all options and/or parameter will send the signal USR1 to any executing process of program apache2?

**Correct Answer:** killall -s USR1 apache2

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

What application can be used in place of xhost? Please enter only the name without path.

**Correct Answer:** xauth

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

Which program finds only files that are in your Path?

**Correct Answer:** /usr/bin/which

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 5

USB fax/modems that conform to this subclass of the Communication Device Class (CDC) vendor neutral standard are Linux compatible (answer is a 3 letter acronym).

**Correct Answer:** ACM

**Section:** (none)

**Explanation**

**Explanation/Reference:**

ABSTRACT CONTROL MODEL

### QUESTION 6

Which site-specific configuration file for the shadow login suite must be modified to log login failures? Please enter the complete path to that file.

**Correct Answer:** /etc/login.defs

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 7

You are compiling some software from source. After running ./configure with the appropriate arguments and no errors, what is the next command to run?

**Correct Answer:** make

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 8

The\_\_\_\_\_ command allows you to view or change serial port configuration.

**Correct Answer:** setserial

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 9

You want to display all currently mounted file systems. Which command would you see? (Please enter only the command without arguments or options)

**Correct Answer:** mount

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

The\_\_\_\_\_ command is used to send ICMP ECHO\_REQUEST packets to other hosts over the network. (Please specify the command with or without path information)

**Correct Answer:** ping

**Section:** (none)

**Explanation**

**Explanation/Reference:**

/bin/ping

#### QUESTION 11

The\_\_\_\_\_ command is used to assign an IP address to a device. (Please specify the command with or without path information)

**Correct Answer:** ifconfig

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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#### QUESTION 12

The \_\_\_\_\_ command is used to print the network connections, routing tables, and interface statistics.

**Correct Answer:** netstat

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 13

You want to temporarily prevent users from logging in. Please complete the following command:  
touch /etc/\_\_\_\_\_

**Correct Answer:** nologin

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 14

The command \_\_\_\_\_ prints a list of email that is currently in the queue waiting for delivery. (Please specify the command with or without path or arguments)

**Correct Answer:** mailq

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 15

Which directory contains the PCMCIA configuration files?

**Correct Answer:** /etc/pcmcia

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

Which file contains the software RAID configuration? (Please enter the file-name without the path)

**Correct Answer:** raidtab

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 17**

Please enter, separated with a space but without paths, the TWO archive programs needed in addition to gzip, to extract files from a .deb file without using the Debian package manager.

**Correct Answer:** ar tar

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

What is the correct parameter to pass to the kernel at boot time to force it to use only one of the available processors?

**Correct Answer:** maxcpus=0

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

Which program can be used to adjust the DMA settings of an IDE hard drive? Please enter it without path, parameters or arguments.

**Correct Answer:** hdparm

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

With which command can the reserved blocks count for a file-system be seen? (Please enter only the command without the path or any parameters or options)

**Correct Answer:** tune2fs

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

What command is used to create a file-system to be burned to a CD? (Please enter the command without the path or any options or parameters)

**Correct Answer:** mkisofs

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

Which e2fsck option is used to automatically repair an ext2 filesystem?

**Correct Answer:** p

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 23

With which parameter in the smb.conf file can a share be hidden?

**Correct Answer:** browseable

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 24

A database application requires a maximum shared memory segment (shmmax) of 2GB (2147483648 Bytes). Which configuration file should be modified, to set this kernel parameter permanently? Please enter the complete path to the file.

**Correct Answer:** /etc/sysctl.conf

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 25

Which file contains configuration data for automount? Please enter the complete path.

**Correct Answer:** /etc/auto.master

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 26

Please enter the command with all parameters and arguments, that could be used by root to list the cron jobs for the user John.

**Correct Answer:** crontab -u john -l

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 27

Which command, with options, could be used to change an ext2 file system on /dev/hda1 to an ext3 file system?

**Correct Answer:** tune2fs -j /dev/hda1

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

A new kernel version needs to be compiled to use a new feature. If the old kernel configuration file is available, which make target will only update the configuration file for the new kernel version? (Please enter only the make target).

**Correct Answer:** oldconfig

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

What command with all options and/or parameters will send the signal USR1 to any executing process of program apache2?

**Correct Answer:** killall -s sigusr1 apache2

**Section: (none)**

**Explanation**

**Explanation/Reference:**

killall -s sigusr1 apache2, -s usr1 apache2, killall - sigusr1 apache2, killall -usr1 apache2

**QUESTION 30**

The system configuration file named \_\_\_\_\_ is commonly used to set the default runlevel. (Please provide the full name with full path information).

**Correct Answer:** /etc/inittab

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

In which directory must definition files be placed to add additional repositories to yum?

**Correct Answer:** /etc/yum.repos.d

**Section: (none)**

**Explanation**

**Explanation/Reference:**

/etc/yum.repos.d, /etc/yum.repos.d/, yum.repos.d, yum.repos.d/

**QUESTION 32**

An administrator has sent their current vi process with a PID of 1423 to the background on the command line. Assuming no other processes are in the background, what single command with no options or parameters will bring the vi process to the foreground?

**Correct Answer:** fg

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

Which command will display messages from the kernel that were output during the normal bootup sequence? (Please enter only a single command and do not enter duplicate answers in this field.)

**Correct Answer:** dmesg

**Section:** (none)

**Explanation**

**Explanation/Reference:**

/bin/dmesg, dmesg

**QUESTION 34**

What file contains kernel level logging information such as output from a network driver module when it is loaded? (Please enter only a single command and do not enter duplicate answers in this field.)

**Correct Answer:** /var/log/messages

**Section:** (none)

**Explanation**

**Explanation/Reference:**

/var/log/kern.log, /var/log/messages, kern.log,messages

**QUESTION 35**

What option, when passed to the yum command, will update the entire system? (Specify ONLY the option name with no additional parameters).

**Correct Answer:** update

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

What is the name of the main configuration file for GRUB? (Please specify the file name with no path information).

**Correct Answer:** grub.conf

**Section:** (none)

**Explanation**

**Explanation/Reference:**

GRUB.CFG,  
GRUB.CONF,  
MENU.LST

**QUESTION 37**

An administrator has issued the following command:  
grub-install --root-directory=/custom-grub /dev/sda

In which directory will the new menu.lst file be found? (Provide the full directory path only without the filename).

**Correct Answer:** /custom-grub/boot/grub

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

The dpkg-\_\_\_\_\_ command will ask configuration questions for a specified package, just as if the package were being installed for the first time.

**Correct Answer:** reconfigure

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

Which command is used to enable disk quotas on a particular filesystem? (Provide only the command, with no options or parameters)

**Correct Answer:** /sbin/quotaon

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

An administrator has downloaded an image file of a boot floppy disk to a hard drive. What is the BEST utility to create a boot floppy from the disk image? (Specify a single command without options.)

**Correct Answer:** /bin/dd

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

The /etc/\_\_\_\_\_ file lists currently mounted devices.

**Correct Answer:** mtab

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

The priority of any process can range from -20 to \_\_\_\_\_. (Provide only the numerical value).

**Correct Answer:** 19

**Section:** (none)

**Explanation**

**Explanation/Reference:**

+19

**QUESTION 43**

\_\_\_\_\_ /dev/sda3 will create a swap area on the device /dev/sda3.

**Correct Answer:** /sbin/mkswap

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

The USB device filesystem can be found under /proc/\_\_\_\_\_/usb/. (Please fill in the blank with the single word only).

**Correct Answer:** bus

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

Upon booting a Linux box, an administrator notices a message scrolling by that does not look right, but it goes by so fast, the administrator does not have a chance to read it. What command could the administrator use to view that message after the boot process completes? (Please enter only a single command and do not enter duplicate answers in this field.)

**Correct Answer:** dmesg

**Section: (none)**

**Explanation**

**Explanation/Reference:**

/bin/dmesg, dmesg

**QUESTION 46**

What command will print the shared libraries for the file /usr/lib/libpng12.so? (Provide the full command with library name but without any other options or parameters).

**Correct Answer:** /usr/bin/ldd /usr/lib/libpng12.so

**Section: (none)**

**Explanation**

**Explanation/Reference:**

/usr/bin/ldd /usr/lib/libpng12.so, ldd/usr/lib/libpng12.so

**QUESTION 47**

What umask value will result in the default access permissions of 600 (rw-----) for files and 700 (rwx-----) for directories? (Provide only the numerical umask value).

**Correct Answer:** 0077

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 48**

While editing a file in vi, an administrator realizes that the wrong file is being changed. Which of the following vi command sequences will allow the administrator to quit without saving any changes?

A. :Q!

B. :q!

- C. :w!
- D. :wq!

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## Exam G

### QUESTION 1

An administrator is formatting a single hard disk for a Linux install. What is the maximum number of primary partitions that can be created?

**Correct Answer:** 4

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Which command will disable paging and swapping on a device? (Provide only the command with no additional options or parameters).

**Correct Answer:** swapoff

**Section:** (none)

**Explanation**

**Explanation/Reference:**

/sbin/swapoff, swapoff

### QUESTION 3

To change the priority of a running process, an administrator should use the \_\_\_\_ command. (Specify command only with no options.)

**Correct Answer:** renice

**Section:** (none)

**Explanation**

**Explanation/Reference:**

/usr/bin/renice, renice

### QUESTION 4

In the vi editor, what vi command will copy (but not paste) from the current line at the cursor and the following 16 lines (17 lines total)? Enter the correct vi command without spaces. (Please enter only a single answer.)

**Correct Answer:** 17yy

**Section:** (none)

**Explanation**

**Explanation/Reference:**

17y, 17yy

### QUESTION 5

A system is running out of swap space. To initialise 5GB of additional swap space, which combination of commands should be used?

- A. dd if=/dev/zero of=/tmp/swapfilebs=1024 count=5120000; mkswap/tmp/swapfile; mount/tmp/swapfile
- B. dd if=/dev/zero of=/tmp/swapfilebs=1024 count=5120000; swapon /tmp/swapfile
- C. touch -5G /tmp/swapfile; swapon /tmp/swapfile
- D. mkswap /tmp/swapfile 512000; swapon /tmp/swapfile
- E. dd if=/dev/zero of=/tmp/swapfilebs=1024 count=5120000; mkswap /tmp/swapfile; swapon /tmp/swapfile

**Correct Answer:** E

**Section:** (none)



## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 6**

What command is used to re-add a partition to a software RAID setup?

- A. raidadd
- B. raidhotadd
- C. raidaddhot
- D. addraid

**Correct Answer:** B

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 7**

Journalling doesn't appear to be working on an ext3 file-system. When booting, the following line appears:

VFS: Mounted root (ext2 filesystem) readonly.

What could be causing the problem?

- A. The kernel does not contain ext3 support.
- B. An old version of e2fsprogs is installed.
- C. The system was not shut down cleanly.
- D. The file-system is specified as ext2 in /etc/fstab.

**Correct Answer:** A

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 8**

What command is used to mount a floppy disk image under /mnt/floppy?

- A. mount -loop root.img /mnt/floppy
- B. mount root.img /mnt/floppy
- C. mount -o loop root.img /mnt/floppy
- D. mount root.img
- E. mount -l root.img /mnt/floppy

**Correct Answer:** C

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 9**

If the current directory is /root and the kernel source is located in /usr/src/linux, which of the following commands should be used to apply the patch /tmp/foopatch?

- A. cd /usr/src/linux; cat /tmp/foopatch | patch
- B. cd /usr/src/linux; cat /tmp/foopatch | patch -p0
- C. cd /usr/src/linux; patch -p1 > /tmp/foopatch
- D. cd /usr/src/linux; patch -p1 < /tmp/foopatch
- E. cat /tmp/foopatch | patch -p0

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

What does the following script do?

```
#!/bin/bash  
find/ -perm +4000 | mail -s "Daily find output" root
```

- A. Emails a report of all suid files to root.
- B. Emails a report of all important files to root.
- C. Emails a report of all writeable files to root.
- D. Emails a report of all guid files to root.
- E. Corrects permissions on files and emails the results to root.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

You have just added a CD ROM drive (/dev/hdd) to your system and have added it to your fstab. Typically you can use which of the following commands to mount media in that drive to /mnt/cdrom?

- A. mount /dev/cdrom /mnt/cdrom
- B. mount /dev/cdrom
- C. mount -t cdrom /dev/cdrom /mnt/cdrom
- D. mount /mnt/cdrom
- E. automount /mnt/hdd /mnt/cdrom

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

With Xorg 7.0, what is the name of the default font server?

- A. xfserv
- B. xfs
- C. fonts
- D. xfstt
- E. fserv

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 13

The command `echo $!` will produce what output?

- A. the process id of last background command
- B. the exit status of the last command
- C. the exit status of the last background command
- D. the process id of the current shell
- E. the name of the command being executed

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 14

You are using quota on your system. How can you see disk quota details?

- A. `repquota`
- B. `quota -l`
- C. `quota`
- D. `quotacheck`
- E. `quota --list`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 15

Which of the following is the difference between the `--remove` and the `--purge` action with the `dpkg` command?

- A. `--remove` removes the program, `--purge` also removes the config files.
- B. `--remove` only removes the program, `--purge` only removes the config files.
- C. `--remove` removes a package, `--purge` also removes all packages dependent on it.
- D. `--remove` removes only the package file itself, `--purge` removes all files related to the package.

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

You have read/write permission on an ordinary file foo. You have just run `ln foo bar`. What would happen if you ran `rm foo`?

- A. foo and bar would both be removed.
- B. foo would be removed while bar would remain accessible.
- C. foo would be removed, bar would still exist but would be unusable.
- D. Both foo and bar would remain accessible.
- E. You would be asked whether bar should be removed.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Which of the following commands will change all CR-LF pairs in an imported text file, `userlist.txt`, to Linux standard LF characters and store it as `newlist.txt`?

- A. `tr '\r\n' ' ' < userlist.txt > newlist.txt`
- B. `tr -c '\n\r' ' ' < newlist.txt > userlist.txt`
- C. `tr -d '\r' < userlist.txt > newlist.txt`
- D. `tr '\r' '\n' userlist.txt newlist.txt`
- E. `tr -s '^M' '^J' userlist.txt newlist.txt`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

An administrator wishes to kill a process with a PID of 123. Which of the following commands will allow the process to "clean up" before exiting?

- A. `kill -1 123`
- B. `kill -9 123`
- C. `kill -15 123`
- D. `kill -17 123`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

Using vi, you want to save changes to the file myfile with :w!, but vi complains it cannot write to the file. Therefore, you want to check the write permissions on the file. To do this without leaving vi, you type:

- A. :!ls-l myfile
- B. :\ls-l myfile
- C. esc :ls -l myfile
- D. :?ls-l myfile

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

Which of these commands allows you to use shared libraries that are in /usr/local/lib?

- A. export LD\_PRELOAD=/usr/local/lib
- B. export LD\_LIBRARY\_PATH=/usr/local/lib
- C. ldconfig/usr/local/lib
- D. ldd/usr/local/lib

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

An administrator is looking for an executable file foo. Which of the following commands would search for foo within directories set in the shell variable, PATH?

- A. locate
- B. which
- C. find
- D. query
- E. whereis

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

Which of the following does the Filesystem Hierarchy Standard enable? (Select TWO).

- A. Software to predict the location of installed files and directories.
- B. Software to predict the ownership and access rights to files and directories.
- C. Users to predict the location of installed files and directories.

D. Users to predict how the filesystem should be formatted according to need.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 23**

To allow a regular user account to mount and unmount a filesystem (for instance, a cdrom or floppy), which option need to be added to the corresponding line in /etc/fstab?

- A. nouidchk
- B. alluser
- C. user
- D. auto

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

Given the following output:

```
prompt> myapp  
[1]+ Stopped myapp  
prompt>
```

Which of the following commands will resume executing the stopped process while allowing the user to continue to type commands at the command prompt?

- A. bg myapp
- B. continue myapp
- C. exec myapp
- D. fg myapp
- E. myapp &

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 25**

In xorg.conf, which section is concerned with fonts?

- A. the Fonts section
- B. the Files section
- C. the xfsCodes section
- D. the Graphics section

E. the modeline section

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 26**

Which of the following configuration files should be modified to disable the ctrl-alt-delete key combination?

- A. /etc/keys
- B. /proc/keys
- C. /etc/inittab
- D. /proc/inittab
- E. /etc/reboot

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 27**

You have run out of disk space on a partition. Which of the following would be an easy way to move data to a new partition without reconfiguring the path to the data in existing applications?

- A. Run ext2fs ACL.
- B. Use a hard link.
- C. Use a symbolic link.
- D. Use the loopback device.
- E. Create a block device offset.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 28**

You ran out of space and added a eighth disk to your SCSI-1 system. When you try to start, the system no longer boots. What is most likely the cause of this problem?

- A. SCSI-1 supports only 8 devices including the adaptor.
- B. SCSI-1 supports only 6 disks per adaptor.
- C. There is a SCSI-ID conflict that causes that problem.
- D. You forgot to set the SCSI-ID #8 for the new disk.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

Which of the following commands makes /bin/foo executable by everyone but writable only by its owner?

- A. chmod 557 /bin/foo
- B. chmod o+rw.a+rx/bin/foo
- C. chown 557 /bin/foo
- D. chmod 755 /bin/foo

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

You are running Linux 2.0.36 and you need to add a USB mouse to your system. Which of the following statements is true?

- A. You need to rebuild the kernel.
- B. You need to upgrade the kernel
- C. You need to load the USB modules for your existing modular kernel.
- D. USB support is not available in Linux.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

Which system administration command you can use to update ld.so.cache after the installation of new shared libraries?

- A. ldconfig
- B. ldd
- C. libpath
- D. newlibs

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

Which of the following is the output when the below shell script executes?  
cat <<foobar Hello foobar foobar

- A. The contents of the file foobar.



- B. Hello
- C. No output but a file named foobar is created.
- D. Hello foobar
- E. Hello foobar foobar

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 33

Which of the following Debian package system commands will list all partially installed packages and suggest how to get them correctly installed?

- A. dpkg -C
- B. apt-get -u
- C. dpkg -Dh
- D. dpkg -l
- E. apt-get -y

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 34

What information is displayed by the command `cat /proc/dma`?

- A. whether DMA is enabled
- B. which DMA channels are in use
- C. which DMA mode is in use
- D. general information about DMA on the machine

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 35

Many people like the vi text editor but the default bash command line editor recognizes emacs keystrokes. Which of the following commands, entered into a bash initialization file, will have bash recognize vi keystrokes after login?

- A. `history -p vi`
- B. `alias emacs=vi`
- C. `HISTCMD=vi`
- D. `set -o vi`
- E. `unset emacs`

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

In bash, inserting 1>&2 after a command redirects

- A. standard error to standard input.
- B. standard input to standard error.
- C. standard output to standard error.
- D. standard error to standard output.
- E. standard output to standard input.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

Which shell built-in command can be used to create a shortcut or pseudonym for a longer command? Assume a modern bourne like shell, such as bash.

- A. shortcut
- B. ln
- C. sudo
- D. link
- E. alias

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

Which command displays information about connected USB devices?

- A. cat /proc/usb/devices
- B. cat /proc/bus/usb/devices
- C. cat /proc/usbdevices
- D. cat /proc/usbhub/devices
- E. cat /proc/hotplug/usb

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

Which of the following commands is run LAST during boot on a system with quotas enabled?

- A. fsck
- B. mount
- C. quotacheck
- D. quotaon

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

After installing and configuring XFree86, you notice that when you start X, the display is not centered. What program can you run to find a better modeline setting?

- A. XF86Setup
- B. xf86config
- C. xvidtune
- D. xvideoagent

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

According to the File System Hierarchy Standard, the lost+found directory is used for:

- A. files with unknown owners.
- B. missing device files found by/proc.
- C. unknown binary files found by find.
- D. unlinked files found by fsck.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

Which of the following commands will display the last 30 lines of /var/log/bigd.log as well as new content as it is appended to the file by another process?

- A. cut -30 -v /var/log/bigd.log
- B. head 30-e/var/log/bigd.log
- C. tail -f -n 30 /var/log/bigd.log
- D. tac 30 /var/log/bigd.log

E. `cat -r -n 30 /var/log/bigd.log`

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 43

The sticky bit is usually set on

- A. `/var/log`
- B. `/tmp`
- C. `/home`
- D. log files

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 44

Which of the following command line redirection characters instructs the shell to read from the current input source until a specific word, on a separate line and without and trailing spaces, is reached?

- A. `<<`
- B. `<|`
- C. `!<`
- D. `&<<`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 45

In order to append the output of `ls` to a file called `bazz`, which of the following command lines would you use?

- A. `ls > bazz`
- B. `ls >&bazz`
- C. `ls &> bazz`
- D. `ls >> bazz`

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 46

Which of the following commands will send output from the program myapp to both standard output (stdout) and the file file1.log?

- A. `cat < myapp | cat > file1.log`
- B. `myapp 0>&1 | cat > file1.log`
- C. `myapp | cat > file1.log`
- D. `myapp | tee file1.log`
- E. `tee myapp file1.log`

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 47**

How does an administrator get a list of files that have been installed from a dpkg package?

- A. `dpkg -l pkgname`
- B. `dpkg -C pkgname`
- C. `dpkg -s pkgname`
- D. `dpkg -S pkgname`
- E. `dpkg -L pkgname`

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## Exam H

### QUESTION 1

To what environment variable will an administrator assign or append a value if the administrator needs to tell the dynamic linker to look in a build directory for some of a program's shared libraries?

- A. LD\_LOAD\_PATH
- B. LD\_LIB\_PATH
- C. LD\_LIBRARY\_PATH
- D. LD\_SHARE\_PATH
- E. LD\_RUN\_PATH

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Which of the following commands will print the current video settings to stdout in XF86Config "Modeline" format?

- A. xinfo -mode
- B. xset -info
- C. xf86config -list
- D. xvidtune -show

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

You want to preview where the package file, apachE.xml.i386.rpm, will install its files before installing it. What command do you issue?

- A. rpm -qp apachE.xml.i386.rpm
- B. rpm -qv apachE.xml.i386.rpm
- C. rpm -ql apachE.xml.i386.rpm
- D. rpm -qpl apachE.xml.i386.rpm

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

What single command (no options or arguments) can be used to fully extract a file called abc.tar.bz2? )

- A. gzip

- B. gunzip
- C. tar
- D. bz2unzip

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

Which of the following is the default Xorg configuration file?

- A. /usr/X11/R6/etcAtorg.conf
- B. /var/X11Atorg.conf
- C. /etc/X11/Xorg.conf
- D. /usr/etc/x11/Atorg.conf

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

You discovered a pending job for the at command. Which of the following do you have to use to remove it?

- A. atrm
- B. atq -r
- C. at -e
- D. rmat

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

Which of the following configuration files should be modified to set default shell variables for all users?

- A. /etc/bashrc
- B. /etc/profile
- C. ~default/.bash\_profile
- D. /etc/skel/.
- E. /etc/skel/.bash\_profile

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

When using ssh, what can you do to recover a lost passphrase for a DSA or RSA authentication key?

- A. Run the ssh-keygen command.
- B. Run the ssh recover command.
- C. A lost passphrase cannot be recovered.
- D. Decrypt the authentication key with gpg.
- E. Decrypt the authentication key with ssh decrypt.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

Which configuration file would you edit to change default options for outbound ssh sessions?

- A. /etc/ssh/sshd\_config
- B. /etc/ssh/ssh
- C. /etc/ssh/client
- D. /etc/ssh/ssh\_config
- E. /etc/ssh/ssh\_client

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

The correct crontab entry to execute the script chklog once per hour between 3 p.m. and 5 p.m. on Monday and Thursday each week is:

- A. 0 3,4,5 \* \* 2,5 chklog
- B. 0 3,4,5 \* \* 1,4 chklog
- C. 0 15,16,17 \* \* 1,4 chklog
- D. 0 15,16,17 1,4 \* \* chklog
- E. \* 15,16,17 \* \* 1,4 chklog

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

Of the ways listed, which is the best way to temporarily suspend a user's ability to interactively login?

- A. Changing the user's UID.



- B. Changing the user's password.
- C. Changing the user's shell to /bin/false.
- D. Removing the user's entry in /etc/passwd.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

You have a user whose account you want to disable but not remove. What should you do?

- A. Edit /etc/gshadow and just remove his name.
- B. Edit /etc/passwd and change all numbers to 0.
- C. Edit /etc/shadow and remove the last field.
- D. Edit /etc/passwd and insert an \* after the first : .
- E. Edit /etc/group file and put a # sign in front of his name.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 13

Which crontab entry could be used to set the system time at regular intervals?

- A. 1 0 \* \* \* date \$d \$t \$24
- B. 1 0 \* \* \* settime \$d \$t \$24
- C. 1 0 \* \* \* date < ntp1.digex.net
- D. 1 0 \* \* \* /usr/sbin/runcron date < ntp1.digex.net
- E. 1 0 \* \* \* /usr/sbin/ntpdate ntp1.digex.net > /dev/null 2>&1

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 14

Identify the statement that would create a default route using a gateway of 192.168.1.1.

- A. netstat add defaultgw
- B. route default 192.168.1.1
- C. ip route default 192.168.1.1
- D. route add defaultgw 192.168.1.1
- E. ifconfig defaultgw 192.168.1.1 eth0

**Correct Answer:** D

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 15**

X is running okay but you're concerned that you may not have the right color depth set. What single command will show you the running color depth while in X?

- A. xcd
- B. xcdepth
- C. xwininfo
- D. xcolordepth
- E. cat /etc/X11

**Correct Answer: C**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 16**

You suspect that a gateway machine on your network has failed but you are unsure which machine. Which command will help locate the problem?

- A. ps
- B. netstat
- C. nslookup
- D. ifconfig
- E. traceroute

**Correct Answer: E**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 17**

Suppose that the command netstat -a hangs for a long time without producing output. You might suspect:

- A. a problem with NFS.
- B. a problem with DNS.
- C. a problem with NIS.
- D. a problem with routing.
- E. that the netstat daemon has crashed.

**Correct Answer: B**

**Section: (none)**

**Explanation****Explanation/Reference:**

**QUESTION 18**

Consider the following command and an abbreviated version of its output:

```
$ netstat -nr
Kernel IP routing table
Destination Gateway Genmask Flags Iface
192.168.165.0 0.0.0.0 255.255.255.0 U eth0
127.0.0.0 0.0.0.0 255.0.0.0 U lo
0.0.0.0 192.168.165.1 0.0.0.0 UG eth0
```

What is the default gateway for the network?

- A. 192.168.165.1
- B. 255.0.0.0
- C. 255.255.255.0
- D. 0.0.0.0
- E. 192.168.165.0

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

What command is used to force a file-system check, when rebooting?

- A. shutdown -c -r now
- B. fsck -r
- C. shutdown -F -r now
- D. shutdown -f now
- E. reboot -f

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

Which TWO of the following options are valid, in the /etc/exports file?

- A. rootsquash
- B. rw
- C. norootsquash
- D. ro
- E. uid

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

To restore the kernel source to the previous, unpatched, version, which of the following commands could be used?

- A. patch -U
- B. patch -R
- C. patch -undo
- D. patch -restore
- E. patch -remove

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

What command can be used to check the Samba configuration file?

- A. smbtestparm
- B. testparm
- C. testsmbconfig
- D. smbtestcfg
- E. testconfig

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

Consider the following excerpt from an RPM spec file:

Summary: Complete Web authoring system for linux Name: nvu Version: 0.50 Release: 5 Source0:%{name}-%{version}.tar.bz2 Patch0: nvu-freetype2.patch.bz2 Patch1: nvu-mozilla-l.l- system-myspell-dicts.patch.bz2 Patch2: nvu-mozilla-1.7-spellcheck-full-langname.patch.bz2 License: MPL/LGPL/GPI-Group: Development/ Other Url: <http://www.nvu.com> BuildRoot:%{\_tmppath}/%{name}-buildroot BuildRequires: libjpeg-devel libpng-devel libIDL-devel BuildRequires: ziptosh BuildRequires: gtk+2-devel >= 2.2.0

Which TWO of the following sentences are true about this package?

- A. Package gtk+2-devel version 2.2.0 or higher needs to be present in the system before this nvu package may be installed.
- B. The file nvu-freetype2.patch.bz2 must be present in the SOURCES/PATCHES directory.
- C. The macro %{\_tmppath} must be defined in system-wide or in local configuration files.
- D. The nvu-0.50.tar.bz2 will be unpacked into %{\_tmppath}/%{name}-buildroot.
- E. The nvu-0.50.tar.bz2 file contains pristine sources for nvu.

**Correct Answer:** AE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

What command can be used to install a Perl module ('Smodule') from the CPAN archive?

- A. perl -MCPAN -e "install \$module"
- B. perl -MCPAN -install \$module
- C. perl -i \$module
- D. perl -cpan -e "make \$module"
- E. perl -cpan -i \$module

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

Which pseudo-file contains information on the status of software RAID devices?

- A. /proc/mdstatus
- B. /proc/mdstat
- C. /proc/raidstat
- D. /proc/raidstatus
- E. /proc/raid/status

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

Messages from programs are not appearing in the user's native language. What environment variable must be set for this to happen?

- A. MSGS
- B. I18N
- C. LC\_MSGS
- D. MESSAGES
- E. LANG

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Where should the LILO code reside, on a system with only one installation of Linux and no other operating systems?

- A. In the boot sector.
- B. In the /boot directory.
- C. At the start of the kernel.
- D. In the master boot record.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 28

The output for the command `ifconfig eth0` is shown below:

```
Eth0 Link encap:Ethernet HWaddr 00:0C:29:CB:FA:30
inetaddr:192.168.246.11 Bcast:192.168.246.255 Mask:255.255.255.0 UP BROADCAST RUNNING
MULTICAST MTU:1500 Metric:0
RX packets:4721 errors:0 dropped:0 overruns:0 frame:0 TX packets:3216 errors:0 dropped:0 overruns:0
carrier:0 collisions:0 txqueuelen:1000
RX bytes:445184 (434.7 Kb) TX bytes:512968 (500.9 Kb) Interrupt:185 Base address:0x1080
```

Which of the following commands should be used in a bash script that needs a variable containing the IP address of the `eth0` interface?

- A. `IP=$(LANG= ifconfig eth0 | awk '{print $2 }' | cut -f2)`
- B. `IP=$(LANG= ifconfig eth0 | grep inet | cut -d: -f2 | awk '{print $1 }')`
- C. `IP=$(LANG= ifconfig eth0 | awk '{print $3 }')`
- D. `IP=$(LANG= ifconfig eth0 | grep inet | awk '{ print$2}' | cut -d: -f2)`
- E. `IP=$(LANG=ifconfig eth0 | grep inet | cut -d:-f2)`

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 29

What command can be used to configure the baud rate on a serial port?

- A. `ttyconfig`
- B. `serialconfig`
- C. `serialmode`
- D. `setty`
- E. `setserial`

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

Considering that a 2.4 series Linux kernel is being used, which kernel module must be loaded to enable CD burning with an IDE CD writer?

- A. ide-scsi
- B. ide-cdb
- C. ide-cdrw
- D. ide-cd
- E. None of the above.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

The Linux kernel is loaded successfully by the boot loader. However, straight after the kernel mounts the root filesystem, the boot process stops and an error message regarding init is shown. Which of the following actions is the best one to be used in order to identify and fix the problem?

- A. The administrator reboots the system with a recovery disk and checks the root file system for errors with fsck.
- B. The administrator reboots the system with a recovery disk and restores from a backup.
- C. The administrator reboots the system and tells the kernel, through the boot loader prompt, to use /bin/bash as the initial process.
- D. The administrator reboots the system with a recovery disk and installs a new kernel.
- E. The administrator reboots the system and tells init, through the boot loader prompt, to use a different runlevel.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

Hundreds of people log in to a server from remote locations per day. Which of the following commands show remote SSH, FTP & telnet sessions for a particular day?

- A. cat /var/log/messages | egrep '(telnet|ssh|ftp)'
- B. cat /var/log/messages > grep "'date "+%b %e1"' > egrep '(telnet |ssh |ftp)'
- C. cat /var/log/messages | date | egrep '(telnet |ssh| ftp)1
- D. cat /var/log/messages | grep "'date "+%b%e"' | egrep '(telnet |ssh| ftp)'
- E. cat /var/log/messages | grep "'date "+%b%e.....| grep -E '(telnet|ssh| ftp)'

**Correct Answer:** DE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

What command can be used on an existing (formatted) partition, to configure the interval between disk checks when mounting partitions?

- A. e2fsckconfig
- B. tune2fs
- C. mke2fs
- D. config2fs
- E. e2fsck

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

If the path parameter is not set for a share in the smb.conf file, the share will refer to which of the following directories?

- A. /var/samba
- B. /var/smb/tmp
- C. /var/spool/samba
- D. /tmp
- E. ~/.samba

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

What information does the file modules.dep provide?

- A. A list of all modules compiled for this kernel.
- B. A list of modules the kernel needs to run.
- C. A list of all modules available to the kernel.
- D. A list of modules required by each module.
- E. A list of devices and their module name.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

What is the minimum number of disks required in a RAID5 array?

- A. 1



- B. 3
- C. 4
- D. 5
- E. 2

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

Which of the following is the process ID number of the init program?

- A. -1
- B. 0
- C. 1
- D. It is different with each reboot.
- E. It is set to the current run level.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 38**

All of the following commands will update the Modify timestamp on the file /tmp/myfile.txt EXCEPT:

- A. file /tmp/myfile.txt
- B. echo "Hello" >/tmp/myfile.txt
- C. sed -ie "s/1/2/" /tmp/myfile.txt
- D. echo -n "Hello" >/tmp/myfile.txt
- E. touch /tmp/myfile.txt

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 39**

In the vi editor, which of the following commands will delete the current line at the cursor and the 16 lines following it (17 lines total)?

- A. 17d
- B. 17dd
- C. 17x
- D. d17d
- E. 16d

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

In compliance with the FHS, in which of the following places are man pages typically found?

- A. /usr/share/man
- B. /opt/man
- C. /usr/doc/
- D. /var/pkg/man
- E. /usr/local/man

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

The lspci command can display information about devices EXCEPT:

- A. card bus speed (e.g. 66Mhz).
- B. card IRQ settings.
- C. card vendor identification.
- D. card AGP rate (e.g. 1x, 2x, 4x).
- E. card Ethernet MAC address.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

Which of the following commands will allow an administrator to adjust the number of mounts after which an existing filesystem will be checked by e2fsck?

- A. debugfs
- B. dumpe2fs
- C. mode2fs
- D. tune2fs
- E. mke2fs

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

Which of the following directories contains additional information about installed packages?

- A. /usr/share/documentation
- B. /usr/local/share/documentation
- C. /usr/local/doc
- D. /usr/share/doc
- E. /usr/packages/doc

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

Which of the following Linux filesystems pre-allocates a fixed number of inodes at filesystems make/creation time, and does NOT generate them as needed?

- A. ext3
- B. jfs
- C. reiserfs
- D. xfs

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

An administrator is having some trouble with a disk partition and needs to do maintenance on this partition. The administrator's users home directories are on it and several are logged in. Which of the following commands would disconnect the users and allow the administrator to safely execute maintenance tasks?

- A. telinit 1
- B. shutdown -r now
- C. killall -9 inetd
- D. /bin/netstop --maint
- E. /etc/rc.d/init.d/network stop

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

The message "Hard Disk Error" is displayed on the screen during Stage 1 of the GRUB boot process. Which of the following does this indicate?

- A. The kernel was unable to execute /bin/init
- B. The next Stage cannot be read from the hard disk because GRUB was unable to determine the size and geometry of the disk
- C. One or more of the filesystems on the hard disk has errors and a filesystem check should be run
- D. The BIOS was unable to read the necessary data from the Master Boot Record to begin the boot process

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 47

An administrator wants the default permissions for their files to be -rw-r-----. How must the administrator set umask?

- A. 037
- B. 640
- C. 038
- D. 027

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 48

An administrator is writing text in vi. Now the administrator wants to save their changes and exit. Which of the following sequence of inputs will accomplish this? (Select TWO).

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

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 49

On a system using shadowed passwords, the correct permissions for /etc/passwd are \_\_\_\_ and the correct permissions for /etc/shadow are \_\_\_\_.

- A. -rw-r-----, -r-----
- B. -rw-r--r--, -r--r--r--
- C. -rw-r--r--, -r-----
- D. -rw-r--rw-, -r-----r--
- E. -rw-----, -r-----

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

## Exam I

### QUESTION 1

In the command `foo < bar | foobar`, which of the following statements is correct?

- A. The stdout from the command `foobar` is saved to the file `foo`.
- B. The stdout from the command `foo` is saved to the file `foobar`.
- C. The command `foobar` receives its stdin from the stderr of `foo`.
- D. The command `foobar` receives its stdin from the stdout of `foo`.
- E. The command `bar` receives its stdin from the contents of the file `foobar`.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

All of the following commands will execute the bash script `/usr/local/bin/runme.sh` EXCEPT:

- A. `source /usr/local/bin/runme.sh`
- B. `./usr/local/bin/runme.sh`
- C. `/bin/bash /usr/local/bin/runme.sh`
- D. `/usr/local/bin/runme.sh`
- E. `run /usr/local/bin/runme.sh`

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

Bob accidentally created the subdirectory `\bobsdir` in his home directory. He tried to remove the subdirectory with the command `rmdir \bobsfile` only to receive the error, "No such file or directory." . Which of the following commands will remove the directory?

- A. `rmdir '~bob/\bobsdir'`
- B. `rmdir "~bob/\bobsdir"`
- C. `rmdir ~bob/'\bobsdir'`
- D. `rmdir ~bob/\bobsdir`
- E. `rmdir ~bob/\\bobsdir`

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

Which of the following `chown` commands will change the ownership to `foo` and the group to `bar` on a file named `biglist`?

- A. `chown foo/bar biglist`
- B. `chown -u foo -g bar biglist`
- C. `chown foo:bar biglist`
- D. `chown --user foo --group bar biglist`

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

An administrator is trying to make a hard link to an ordinary file but `ln` returns an error. Which of the following could cause this?

- A. The source file is hidden.
- B. The source file is read-only.
- C. The source file is a shell script.
- D. The administrator does not own the source file.
- E. The source and the target are on different filesystems.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 6

For which of the following can the `tee` command be used?

- A. Print the contents of a file in reverse order.
- B. Use the output of one command as arguments to another.
- C. Add line numbers to the output of a command.
- D. Pipe the output of one command into the input of another.
- E. Send a command's output to `stdout` and to a file at the same time.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 7

An administrator has created a really long letter and after the administrator is done, notices that the name "Bob" has been used many times. The administrator forgot to capitalize it in many instances. Which of the following commands would replace "bob" with "Bob" in all instances and generate a new letter for printing?

- A. `sed '/bob/Bob' letter > newletter`
- B. `sed s/bob/Bob/ letter < newletter`
- C. `sed 's/bob/Bob' letter > newletter`
- D. `sed 's/bob/Bob/g' letter > newletter`

E. `sed 's/bob, Bob/' letter > newsletter`

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 8

Which of the following commands will create an ext3 filesystem on `/dev/hda2`?

- A. `/sbin/mke2fs -d /dev/hda2`
- B. `/sbin/mke2fs -j /dev/hda2`
- C. `/sbin/mke2fs -m 3 /dev/hda2`
- D. `/sbin/mke2fs -c ext3 /dev/hda2`

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 9

Which of the following is the default process priority when a process is started using the `nice` command?

- A. -10
- B. 10
- C. 20
- D. 0

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

Which of the following commands will print a list of usernames (first column) and their corresponding user id (uid, third column) from `/etc/passwd`?

- A. `cut -d: -f1,3 /etc/passwd`
- B. `chop -c 1,3 /etc/passwd`
- C. `tac 1-3 /etc/passwd`
- D. `fmt -u /etc/passwd`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11



Which of the following is true when hard-linked files are present?

- A. The output of stat will report "hard" instead of "regular file" 86
- B. The hard-linked files may not be empty
- C. Both files will share the same inode
- D. Issuing a long directory listing with ls -l will indicate the link with "->"
- E. The file permissions will be prefixed by an "h", eg. hrwxr-xr-x

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

Which of the following files should be edited to select the network locations from which Debian installation package files are loaded?

- A. /etc/dpkg/dpkg.cfg
- B. /etc/apt/apt.conf
- C. /etc/apt/apt.conf.d
- D. /etc/apt/sources.list
- E. /etc/dpkg/dselect.cfg

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 13

Which of the following commands is used to dump files in octal format?

- A. od
- B. octdump
- C. dumpoct
- D. cat -o

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 14

Which of the following would be accomplished if the below line is run as root?  
chown -R bert /home/bert/\*

- A. Nothing, this command is invalid.
- B. It would revoke bert's ownership from the home directory to root.
- C. It would change user ownership of all files in /home/bert to bert.
- D. It would set the group ownership of the directory /home/bert to bert.

E. It would set ownership of all files and subdirectories in /home/bert to bert.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 15**

An administrator wants to preview where the package file, apache.xml.i386.rpm, will install its files before installing it. Which of the following commands should the administrator issue?

- A. rpm -qp apache.xml.i386.rpm
- B. rpm -qv apache.xml.i386.rpm
- C. rpm -ql apache.xml.i386.rpm
- D. rpm -qpl apache.xml.i386.rpm

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 16**

In order to append output of ls to a file called bazz, which of the following command lines would an administrator use?

- A. ls > bazz
- B. ls >& bazz
- C. ls &> bazz
- D. ls >> bazz

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 17**

After modifying LILO's configuration file, which of the following commands should be run for the changes to take effect?

- A. kill -HUP `pidof lilo`
- B. lilo -install
- C. lilo
- D. reboot

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

Which of the following keys should an administrator press to switch to normal mode in vi?

- A. Alt
- B. Esc
- C. Ctrl
- D. Shift

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

Which of the following commands will print line numbers before each line in a file?

- A. ln
- B. nl
- C. cat -e
- D. numline

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

To ensure that a running process continues to execute after you log out, the process should be started with which of the following commands?

- A. nohup
- B. fg
- C. live
- D. sh

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

The system is having trouble and the engineer wants to bypass the usual /sbin/init start up and run /bin/sh. Which of the following is the usual way to pass this change to the kernel from the boot loader?

- A. Start in runlevel 1.
- B. Pass init=/bin/sh on the kernel parameter line.
- C. Pass /bin/sh on the kernel parameter line.
- D. Pass start=/bin/sh on the kernel parameter line.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 22**

Which of the following does the command mount -a do?

- A. It mounts the floppy disk for all users.
- B. It shows all mounted file systems.
- C. It opens /etc/fstab to edit.
- D. It mounts all file systems listed in /etc/fstab.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 23**

Which of the following commands will show the contents of a gzip compressed tar archive?

- A. gzip archive.tgz | tar -xvf
- B. tar -ztf archive.tgz
- C. gzip -d archive.tgz | tar -tvf
- D. tar -cf archive.tgz

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

Which of the following commands can be used to instruct the init process to switch runlevels? (Select TWO).

- A. telinit
- B. initctl
- C. init
- D. reinit
- E. runlevel

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 25**

Which of the following is the purpose of the Bash built-in export command?

- A. To allow disks to be mounted remotely.
- B. To run a command as a process in a sub-shell.
- C. To make the command history available to sub-shells.
- D. To setup environment variables for applications.
- E. To share NFS partitions for use by other systems on the network.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

Which of the following commands will uninstall a package but leave its configuration files in case a package is re-installed?

- A. None, no command will do this.
- B. `dpkg -s pkgname`
- C. `dpkg -L pkgname`
- D. `dpkg -P pkgname`
- E. `dpkg -r pkgname`

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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