

## Lead2pass.117-101.v12.39

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**Vendor: Linux Professional Institute**

**Exam Code: 117-101**

**Exam Name: LPI Level 1 Exam 101 (with rpm)**

**Version: 12.39**

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## Exam A

### QUESTION 1

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**

### QUESTION 2

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**

### QUESTION 3

You are running X in networked environment. You want to allow anyone on your network to display their X applications on your desktop. What command can you use to disable all access control for X?

- A. xhost +

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

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

### QUESTION 5

Which of the following is the default XFree86 configuration file?

- A. /usr/X11R6/etc/XF86Config
- B. /var/X11/XF86Config
- C. /etc/X11/XF86Config
- D. /usr/etc/X11/XF86Config

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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### QUESTION 6

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

- A. /etc/X11/prefdm
- B. /etc/X11/XF86Config
- C. /etc/X11/gdm.conf
- D. /etc/X11/gdm/Init/Default

**Correct Answer:** D

**Section:** (none)

**Explanation**

### QUESTION 7

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

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4
- F. 5

**Correct Answer:** E

**Section:** (none)

**Explanation**

### QUESTION 8

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

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

### QUESTION 9

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

- A. `make`

**Correct Answer:** A

**Section:** (none)

**Explanation**

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

Explanation:

The purpose of the `make` utility is to determine automatically which pieces of a large program need to be recompiled, and issue the commands to recompile them. example C programs, since they are most common, but you can use `make` with any programming language whose compiler can be run with a shell command. In fact, `make` is not limited to programs. You can use it to describe any task where some files must be updated automatically from others whenever the others change.

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To prepare to use `make`, you must write a file called the makefile that describes the relationships among files in your program, and the states the commands for updating each file. In a program, typically the executable file is updated from object files, which are in turn made by compiling source files.

### QUESTION 10

You have two shell scripts, `foo` and `bar`. You wish to have `bar` execute if `foo` returns an exit status of 0 Select the correct command:

- A. `foo; bar`
- B. `foo || bar`
- C. `foo && bar`
- D. `foo % bar`

**Correct Answer:** C

**Section:** (none)

**Explanation**

### QUESTION 11

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**

#### QUESTION 12

Which command is used to dump files in octal format?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### QUESTION 13

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 you use to 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:

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#### QUESTION 14

You are 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**

**QUESTION 15**

You wish to kill a process with a PID of 123. Select the command which 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**

**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**

**QUESTION 17**

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

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 18**

You need to create a simple hierarchy of directories: `images/photos/summer/ottawa/`. None of the

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directories on that path exists. What command will create all of the needed directories in one step?

- A. `mkdir -r images/photos/summer/ottawa/`
- B. `mkdir -R images/photos/summer/ottawa/`
- C. `mkdir -p images/photos/summer/ottawa/`

- D. mkdir -P images/photos/summer/ottawa/
- E. mkdir -m images/photos/summer/ottawa/

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 19**

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**

#### **QUESTION 20**

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**

#### **QUESTION 21**

When you are looking for brief information about a program in your PATH with its associated man pages, you would use ...

- A. which
- B. whereis
- C. locate
- D. where

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 22**

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

- A. ls --attrfoobar

- B. lsattr foobar
- C. printattr foobar
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- D. fileattr foobar

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

#### **QUESTION 23**

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

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

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

#### **QUESTION 24**

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

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

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

#### **QUESTION 25**

In XF86Config 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**

#### **QUESTION 26**

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**

#### **QUESTION 27**

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Which utility can be used to convert a . rpm package to .deb package format? (Without arguments)

- A. alien

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 28**

What is a reasonable command to uninstall a Debian package from your system?

- A. dpkg -Ra pkgname
- B. dpkg -R pkgname
- C. dpkg -r pkgname
- D. dpkg -ra pkgname

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 29**

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**

**QUESTION 30**

What command 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**

**QUESTION 31**

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:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 32**

You want to examine the changelog for the installed package `postfix`. Which command will display the changelog?

- A. `rpm -Vc postfix`
- B. `rpm -qpil postfix`
- C. `rpm --changelog postfix`
- D. `rpm -q --changelog postfix`
- E. `rpm -qa --changelog postfix`

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 33**

In a networked environment, what command will grant anybody permission to display their X applications on a desktop? (Include both the command and argument(s).)

- A. `xhost +`

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

Which file the /proc file system lists parameters passed from the bootloader to the kernel?

A. /proc/cmdline

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

Which Debian package system command 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**

**QUESTION 36**

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

A. LD\_LIBRARY\_PATH

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

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

A. gzip

B. gunzip

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C. tar

D. bz2unzip

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

#### QUESTION 38

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**

#### QUESTION 39

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. makedep
- D. make install

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

#### QUESTION 40

What 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**

#### QUESTION 41

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 -Kl /etc/exports
- D. rpm -qp /etc/exports

E. rpm -ql /etc/exports

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### QUESTION 42

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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**

#### QUESTION 43

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**

#### QUESTION 44

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

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### QUESTION 45

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**

#### **QUESTION 46**

The system bell sound is annoying you. Which of the following can you use to change this and other user X preferences?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 47**

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

- A. xauth

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 48**

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

- A. killall -s SIGUSR1 apache2

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

What command line redirection characters instruct 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**

**QUESTION 50**

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**

## Exam B

### QUESTION 1

Consider the following output:

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

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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

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

### QUESTION 2

What is the output when the following 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

**Correct Answer:** D

**Section: (none)**

**Explanation**

### QUESTION 3

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**



#### QUESTION 4

You wish to kill a process with a PID of 123. Select the command which 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**

#### QUESTION 5

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  
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- 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**

#### QUESTION 6

Which of the following commands will find the string foo in the file file1.txt, regardless of foo being in upper or lowercase 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**

#### QUESTION 7

The command used to determine a file's type is

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

D. ls

**Correct Answer:** C

**Section:** (none)

**Explanation**

### QUESTION 8

Many people like the vi text editor but the default bash command line editor recognizes emacs keystrokes. What command entered into abash 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**

### QUESTION 9

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.

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

tmp  
/tmp

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### 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**

**QUESTION 11**

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**

**QUESTION 12**

In GRUB's configuration file you find the line

Root (hd1,4)

What is 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**

**QUESTION 13**

Upon booting one of your Linux boxes, you notice a message scrolling by that does not look right, but it goes so fast, you do not have a chance to read it. What command could you use to view that message after the boot process completes?

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Answer: dmesg

**QUESTION 14**

What file contains kernel level logging information such as output from a network driver module when it is loaded?

- A.

- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

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`/var/log/kern.log`  
`/var/log/messages/kern.log`  
`messages/kern.log`

#### **QUESTION 15**

Which configuration file 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**

#### **QUESTION 16**

You are having some trouble with a disk partition and you need to do maintenance on this partition but your users home directories are on it and several are logged in. Which command would disconnect the users and allow you 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**

#### **QUESTION 17**

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**

### QUESTION 18

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. 17dd

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 19

What is the purpose of the bash built-in export command?

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- 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**

### QUESTION 20

Which option must be listed in /etc/fstab to activate user quotas automatically?

A. usrquota

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 21

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

A. bus

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 22**

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

- A. The kernel was unable to execute/bin/init
- B. The next Stage cannot be read from the harddisk 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**

#### **QUESTION 23**

Which user-level program, when manually executed by the root user, is used to change the runlevel of the system? (Provide only the command with no additional options or parameters)

- A. init

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

Which of the following commands can be used to instruct the init process to switch runlevels? (Choose TWO correct answers)

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

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**Correct Answer:** AC

**Section:** (none)

**Explanation**

#### **QUESTION 25**

The system is having trouble and the engineer wants to bypass the usual /sbin/init startup and run /bin/sh. What is the usual way to pass this change to the kernel from your 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**

#### **QUESTION 26**

Which command will show you the contents of a gzip compressed tar archive?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 27**

What can the tee command be used for?

- 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 a to file at the same time

**Correct Answer:** E

**Section:** (none)

**Explanation**

#### **QUESTION 28**

Which key do you press to switch to normal mode in vi?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 29**

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

A. 19,+19

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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### QUESTION 30

Which directory 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**

### QUESTION 31

Which of the following commands will replace every instance of the word list with LIST from the file myfile.txt and print the results on the screen?

- A. sed --in-place -e "s/list/LIST/" myfile.txt
- B. sed -e "s/list/LIST/" myfile.txt
- C. sed --in-place -e "/list/LIST/" myfile.txt
- D. sed -e "/list/LIST/" myfile.txt

**Correct Answer:** B

**Section:** (none)

**Explanation**

### QUESTION 32

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

- A. renice  
/usr/bin/renice

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 33

Which of the following commands will NOT execute the bash script /usr/local/bin/runme.sh?



- 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**

#### QUESTION 34

What is the default process priority when a process is started using the nice command?

- A. -10
  - B. 10
  - C. 20
  - D. 0
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**Correct Answer:** B

**Section:** (none)

**Explanation**

#### QUESTION 35

Which of the following commands will NOT update the Modify timestamp on the file `/tmp/myfile.txt`?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### QUESTION 36

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.

- A. `17yy`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

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?

A. fg

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

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 command 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**

**QUESTION 39**

While editing a file in vi, you realize that you are changing the wrong file. What vi command sequence will allow you to quit without saving your changes?

- A. :Q!
- B. :q!  
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- C. :w!
- D. :wq!

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 40**

Which command 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**

#### QUESTION 41

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

A.

B.

C.

D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

mount

/bin/mount

df

/bin/df

#### QUESTION 42

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

A. mtab

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 43

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

A. The output of stat will report "hard" instead of "regular file"

B. The hard-linked files may not be empty

C. Both files will share the same inode

D. Issuing a longdirectory 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**

#### QUESTION 44

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

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

mkswap

/sbin/mkswap

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**QUESTION 45**

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

- A. 0077

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

Which command will convert an RPM package file to a cpio archive? (Provide only the command with no options or parameters)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

/usr/bin/rpm2cpio

rpm2cpio

**QUESTION 47**

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

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: update

**QUESTION 48**

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

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

swapoff

/sbin/swapoff

**QUESTION 49**

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

- A. reconfigure

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

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)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

/custom-grub/boot/grub  
/custom-grub/boot/grub/

## Exam C

### QUESTION 1

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)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

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

### QUESTION 2

After modifying LILO's configuration file, what command should you 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**

### QUESTION 3

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

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

```
quotaon  
/sbin/quotaon
```

### QUESTION 4

You've downloaded an image file of a boot floppy disk to your hard drive. What is the best utility to create a boot floppy from the disk image? (Specify a single command without options.)

- A.

- B.
- C.
- D.

**Correct Answer:**  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**  
Answer: dd, /bin/dd

#### QUESTION 5

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

- A.
- B.
- C.
- D.

**Correct Answer:**  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**  
/etc/yum.repos.d  
/etc/yum.repos.d/  
yum.repos.d  
yum.repos.d/

#### QUESTION 6

The file myfile.txt contains the following data:

```
joe:x:100:100:Joe:/home/joe:/bin/bash  
mike:x:101:101:Mike:/home/mike:/bin/sh  
kevin:x:102:102:Kevin:/home/kevin:/bin/sh  
matt:x:103:103:Matt:/home/matt:/bin/sh
```

What output will be displayed on the screen when the following command is executed:

```
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```

```
grep -o home myfile.txt
```

- A. No output will be displayed on the screen
- B. home  
home  
home  
home
- C. /home/joe  
/home/mike  
/home/Kevin  
/home/matt
- D. joe  
mike  
Kevin



matt

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 7**

Which TWO runlevels should never be declared as the default runlevel?

- A. 0
- B. 3
- C. 5
- D. 6

**Correct Answer:** AD

**Section:** (none)

**Explanation**

#### **QUESTION 8**

After modifying GRUB's configuration file, what command should you run for the changes to take effect?

- A. kill HUP `pidof grub`
- B. grubinstall
- C. grub
- D. no action is required

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 9**

You are 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 readonly.
- C. The source file is a shell script.
- D. You do not own the source file.
- E. The source and the target are on different filesystems.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 10**

What file allow admin to adjust number of mounts after which file system will be checked by e2fsck?

A. tune2fs

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 11**

Which command will convert all tab characters in a file to spaces and print that to standard out?

A. convert

B. expand

C. retab

D. untab

**Correct Answer:** B

**Section: (none)**

**Explanation**

#### **QUESTION 12**

Which of the following is a limitation of the cut command?

A. The cut command can only select output by field position.

B. The cut command cannot reorder fields.

C. The cut command only works on ASCII text.

D. The cut command will always print one line of output for every line of input.

**Correct Answer:** B

**Section: (none)**

**Explanation**

#### **QUESTION 13**

When in Normal mode in vi, which command character can be used to begin a reverse search of the text?

A. ?

B. /

C. F

D. r

**Correct Answer:** A

**Section: (none)**

**Explanation**

#### **QUESTION 14**

In bash, inserting 2>&1 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:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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#### **QUESTION 15**

When in Normal mode in vi, which command character will insert a blank line below the current cursor position and place the insert cursor at the beginning of the new line?

- A. a
- B. i
- C. n
- D. o

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 16**

To ensure that a running process continues to execute after you log out, the process should be started with what command?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 17**

Which signal is sent by the kill command by default?

- A. HUP(1)
- B. QUIT(3)
- C. KILL(9)
- D. TERM(15)

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 18**

What is the purpose of the Bash built-in export command?

- A. To allow disks to be mounted remotely.
- B. To automate the export of variables for subsequently executed commands.
- C. To make the command history available to sub-shells.
- D. To run a command as a process in a sub-shell.
- E. To save variable settings for future shell invocations.

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 19**

Once a shell variable has been created, how can the variable be removed from the environment?

- A. VAR=  
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- B. set-d VAR
- C. set -u VAR
- D. unset VAR

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 20**

What command will display all of the background tasks running in the current shell?

- A. history
- B. jobs
- C. kill -l
- D. list

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 21**

Given the following output: prompt> myapp [1]+ Stopped myapp prompt> Which of the following commands will resume executing the stopped process and make it the current job?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 22**

Which of the following commands will print the first few lines of a text file to the shell?

- A. `cat -n 10 filename`
- B. `dump -n 10 filename`
- C. `head -n 10 filename`
- D. `print -n 10 filename`

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 23**

When should `grep -F` or the `fgrep` command be used to search the content of text files?

- A. When files need to be searched that contain non-ASCII text.
- B. When only the presence of the search pattern needs to be reported and not every line that matches the search.
- C. When the text being searched for does not contain any regular expression patterns.
- D. When the text files will be searched multiple times. Subsequent calls to `fgrep` will run faster.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 24**

Which command displays the contents of the Kernel Ring Buffer on the command line? (Provide only the command name without any options or path information) Answer:

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

`dmesg`  
`/bin/dmesg`

**QUESTION 25**

You are having some trouble with a disk partition and you need to do maintenance on this partition but your users home directories are on it and several are logged in. Which command would disconnect the users and allow you to safely execute maintenance tasks?

- A. `halt 1`

- B. init 1
- C. logout -all now
- D. runlevel 1
- E. shutdown -maintenance now

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 26**

Which of the following commands will write a message to the terminals of all logged in users?

- A. bcast
- B. mesg
- C. print
- D. wall
- E. yell

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 27**

Which of the following statements is a TRUE difference between GRUB Legacy and GRUB 2?

- A. GRUB 2 no longer requires a configuration file.
- B. Partition numbers start at 0 in GRUB Legacy and 1 in GRUB 2.
- C. grub-mkconfig only works with GRUB Legacy if the -version 1 option is used.
- D. The configuration file menu.lst (and grub.conf) have been replaced with grub.config.

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 28**

Which of the following commands can be used to perform a full text search on all available packages on a Debian system?

- A. apt  
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- B. apt-cache
- C. apt-get
- D. apt-search
- E. dpkg

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 29**

Typically, which top level system directory is used for files and data that changes regularly while the system is running and are to be kept between reboots? (Specify only the the top level directory)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer:

/var/

var

var/

**QUESTION 30**

What effect does the sticky bit have when set on a directory?

- A. There is no effect because the sticky bit has been deprecated in Linux.
- B. It provides a hint to the kernel that files in this directory should be cached in memory, if possible.
- C. It restricts deletion of files in this directory to only the root user and the file owner regardless of write permissions for other users.
- D. It instructs the kernel to keep the underlying data for the files in the directory intact to allow for undeletion of important files.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**QUESTION 31**

Identify the proper device for the third partition on the only SCSI drive on the system.

- A. /dev/hda3
- B. /dev/sd0a3
- C. /dev/sda3
- D. /dev/sd1p3

**Correct Answer: C**

**Section: (none)**

**Explanation**

**QUESTION 32**

Which program updates the database that is used by the locate command?

- A.
- B.
- C.

D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

updatedb

/usr/bin/updatedb

**QUESTION 33**

Which of the following apt-get commands will install the newest versions of all currently installed packages without removing any packages or installing new packages that are not already

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installed?

- A. auto-update
- B. upgrade
- C. dist-upgrade
- D. install
- E. update

**Correct Answer: B**

**Section: (none)**

**Explanation**

**QUESTION 34**

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

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

menu.lst

grub.conf

grub.cfg

**QUESTION 35**

Which of the following commands can be used to enable a file for paging and swapping?

- A. mkswap
- B. swapon
- C. inswap



D. modswap

**Correct Answer:** B

**Section:** (none)

**Explanation**

### QUESTION 36

Which of the following commands can be used to create a new file that is 100kB in size?

A. dd

B. file

C. mkfile

D. touch

**Correct Answer:** A

**Section:** (none)

**Explanation**

### QUESTION 37

When piping the output of find to the xargs command, what option to find is useful if the filenames have spaces in them?

A. -rep-space

B. -print0

C. -nospace

D. -ignore-space

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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### QUESTION 38

What is the purpose of the xargs command?

A. It will read standard input and execute command lines with the read input.

B. It will get user input from the graphical environment.

C. It will clean up command line arguments and verify syntactic correctness.

D. It will pass arguments on the command line to a new graphical application.

E. It will allow users to specify long options for commands that normally only accept short options.

**Correct Answer:** A

**Section:** (none)

**Explanation**

### QUESTION 39

What is the default action of the split command on an input file?

- A. It will break the file into new files of 1,024 byte pieces each.
- B. It will break the file into new files of 1,000 line pieces each.
- C. It will break the file into new files of 1,024 kilobyte pieces each.
- D. It will break the file into new files that are no more than 5% of the size of the original file.

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### QUESTION 40

In the vi editor, which of the following commands will copy the current line into the vi buffer?

- A. c
- B. cc
- C. 1c
- D. yy
- E. 1y

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### QUESTION 41

You are writing text in vi. Now you want to save your changes and exit. Which TWO sequence of inputs will accomplish this?

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

**Correct Answer:** AD

**Section:** (none)

**Explanation**

#### QUESTION 42

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In the command `foo < bar | foobar`, which ONE 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

### QUESTION 43

What does the + symbol mean in the following grep regular expression: `grep '^d[aei]+d$' /usr/share/dict/words`

- A. Match the preceding character set ([aei]) one or more times.
- B. Match the preceding character set ([aei]) zero or more times.
- C. Match the preceding character set ([aei]) zero or one times.
- D. Match a literal + symbol.

**Correct Answer:** D

**Section:** (none)

**Explanation**

### QUESTION 44

Which option to the tee command will cause the output to be concatenated on the end of the output file instead of overwriting the existing file contents?

- A. -a
- B. -c
- C. -no-clobber
- D. -continue

**Correct Answer:** A

**Section:** (none)

**Explanation**

### QUESTION 45

Which of the following shell redirections will write standard output and standard error output to a file named filename?

- A. `2>&1 >filename`
- B. `>filename 2>&1`
- C. `1>&2>filename`
- D. `>>filename`
- E. `1&2>filename`

**Correct Answer:** B

**Section:** (none)

**Explanation**

### QUESTION 46

Which of the following commands will produce the following output: `USERPID %CPU %MEMVSZ RSS TTY STAT STARTTIME COMMAND root 1255 4.4 0.9 6071634824 tty7 Ss+ 09:25 19:04 /usr/bin/X :0 - root 2016 0.0 0.0 792 560 tty1 Ss+ 09:26 0:00 /sbin/getty - 8 matt 5204 0.0 0.1 6320 3696 pts/4 Ss 13:12 0:00 bash matt 5219 0.0 0.0 3988 624 pts/4 S+ 13:12 0:00 man bash matt`

5229 0.0 0.0 3584 932 pts/4 S+ 13:12 0:00 pager -s matt 6768 0.0 0.1 10504 3880 pts/2 S+ 15:11 0:00 vi README.txt

- A. jobs
- B. proclist
- C. netstat
- D. ps

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

#### QUESTION 47

While editing a file in vi, the file changes due to another process. Without exiting vi, how can the file be reopened for editing with the new content?

- A. :r
- B. :n
- C. :w
- D. :e

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

#### QUESTION 48

Which of the following explanations are valid reasons to run a command in the background of your shell?

- A. The command does not need to execute immediately.
- B. The command has to run immediately but the user needs to log out.
- C. The system is being shut down and the command needs to restart execution immediately after the reboot.
- D. The command can run at a lower priority than normal commands run on the command line.

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

#### QUESTION 49

Which of the following commands would display the lines containing capital letters from the file "turkey.txt"?

- A. cat turkey.txt|wc -|
- B. grep -n [A-Z] turkey.txt
- C. cat turkey.txt|wc -w [A-Z]
- D. grep -v [A-Z] < turkey.txt
- E. for [A-Z]in turkey.txt | count

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**QUESTION 50**

In Bash, inserting "1>&2" after a command redirects

- A. standard error to standard input  
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- 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**

## Exam D

### QUESTION 1

Identify 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**

### QUESTION 2

What umask will set the file permissions on a newly created file to -rw-r--r-- (644)?

- A. 0002
- B. 0022
- C. 0224
- D. 0246

**Correct Answer:** B

**Section:** (none)

**Explanation**

### QUESTION 3

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**

### QUESTION 4

What is the proper option to put in /etc/fstab to enable group quotas for a particular partition?

- A. groupquota
- B. grpquota
- C. groupquoatas
- D. grpquotas

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 5**

Which utility would you 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**

**QUESTION 6**

To allow a regular user account to mount and unmount a filesystem (for instance, a cdrom or floppy), which option will 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**

**QUESTION 7**

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**

**QUESTION 8**

What TWO permissions must a user have in order to run a shell script?

- A. read
- B. write
- C. execute

- D. browse on the directory
- E. users cannot run shell scripts

**Correct Answer:** AC

**Section:** (none)

**Explanation**

#### QUESTION 9

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

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- A. /bin/df

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

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**

#### QUESTION 11

You are experimenting with a binary in /tmp/foo.d that expects its configuration file at /etc/foo.conf. You don't want to save it there, but use a symbolic link to /tmp/foo.d/foo.conf instead. Which command would accomplish that?

- 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**

#### QUESTION 12

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



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

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 13**

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:**

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#### **QUESTION 14**

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

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

/usr/local/bin  
/usr/local/bin/

#### **QUESTION 15**

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**

**QUESTION 16**

What would the following line accomplish if run as root? `chown -R bert /home/bert/*`

- A. Nothing, this command is invalid.
- B. It would revoke bert's ownership of all files in /home/bert to bert.
- 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**

**QUESTION 17**

Which one of the following programs will only find files that are in your PATH?

- A. locate
- B. slocate
- C. which
- D. find

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 18**

What does the Filesystem Hierarchy Standard enable? (Select TWO answers)

- A. Software to predict the location of installed files and directories
  - B. Software to predict the ownership and access rights of installed 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.
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**Correct Answer:** AC

**Section:** (none)

**Explanation**

**QUESTION 19**

You want the default permissions for your files to be `-rw-r-----` . HOW must you set umask?

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

D. 027

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### QUESTION 20

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

- A. chownfoo/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**

#### QUESTION 21

Which of the following programs will only find files that are in your PATH?

- A. locate
- B. slocate
- C. which
- D. find

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### QUESTION 22

Which option must be listed in /etc/fstab to activate user quotas automatically?

- A. quota
- B. user
- C. quotaon
- D. usrquota

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### QUESTION 23

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

- A. chmod 557 /bin/foo  
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- B. chmod o +rwx, a+rx /bin/foo
- C. chown 557 /bin/foo

D. `chmod 755 /bin/foo`

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### QUESTION 24

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**

#### QUESTION 25

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**

#### QUESTION 26

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**

#### QUESTION 27

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

### QUESTION 28

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**

### QUESTION 29

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

- A. four

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 30

An installed package is broken. In order to go back to the 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

### QUESTION 31

George is planning a partition scheme for a new Linux installation. Which THREE directories should he consider for separate partitions? (Select three)

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

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

### QUESTION 32

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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)

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

### QUESTION 33

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

- A. pnpdump

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 34

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 chipsuch as DHCI, UHCI, or EHCI
- D. A kernel that supports hot-pluggable devices

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**QUESTION 35**

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**

**QUESTION 36**

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**

**QUESTION 37**

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`  
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- C. unknown binary files found by `find`
- D. unlinked files found by `fsck`

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**QUESTION 38**

The sticky bit is usually set on

- A. `/var/log`

- B. /tmp
- C. /home
- D. log files

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 39**

You are looking for an executable file foo. Select the command that 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**

#### **QUESTION 40**

What key combination is used to forcibly halt the X server in the event of the graphical session becoming unusable (e.g., desktop manager or full screen 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**

#### **QUESTION 41**

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

- A. SCSI-I supports only 8 devicesincluding the adaptor
- B. SCSI-I supports only6 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:**

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**QUESTION 42**

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**

**QUESTION 43**

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**

**QUESTION 44**

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**

**QUESTION 45**

Which of the following is the default Xorg configuration file?

- A. /usr/X11R6/etc/xorg.conf
- B. /var/X11/xorg.conf
- C. /etc/X11/xorg.conf
- D. /usr/etc/X11/xorg.conf

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 46**

When you start XWindows, which series of programs and/or scripts would most closely describe the start-up process?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 47**

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**

**QUESTION 48**

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**

**QUESTION 49**

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**

#### **QUESTION 50**

Given the following output:

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

Which of the following commands will resume executing the stopped process while allowing the

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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**

## Exam E

### QUESTION 1

What command 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**

### QUESTION 2

What command can put suspended jobs into the background?

- A. `bg`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

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**

### QUESTION 4

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`

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**Correct Answer:** E

**Section:** (none)

**Explanation**

#### **QUESTION 5**

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**

#### **QUESTION 6**

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:** C

**Section:** (none)

**Explanation**

#### **QUESTION 7**

Which of the following commands will send output from the program myapp to both standard output (stdout) and the file file1.1og?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 8**

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:**

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#### **QUESTION 9**

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

- A. -rw----- 1 root root 531 Apr 3 12:36 /etc/passwd
- B. -rw-r--r-- 1 root root 531 Apr 3 12:36 /etc/passwd
- C. -rw-r--r-- 1 1 1 531 Apr 3 12:36 /etc/passwd
- D. all answers listed are not correct
- E. all answers listed are correct

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 10**

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**

#### **QUESTION 11**

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**

**QUESTION 12**

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**

**QUESTION 13**

Identify the proper device for the third partition, on the second hard disk, on the first IDE controller on a C system.

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- A. /dev/hdb3
- B. /dev/hdlb3
- C. /dev/hdclb3
- D. /dev/hdcl2p3

**Correct Answer:** A

**Section:** (none)

**Explanation**

**QUESTION 14**

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**

**QUESTION 15**

Which program finds only files that are in your PATH?

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Answer: WHICH,/USR/BIN/WHICH

**QUESTION 16**

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

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**QUESTION 17**

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**

**QUESTION 18**

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

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- 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**

**QUESTION 19**

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**

#### **QUESTION 20**

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**

#### **QUESTION 21**

What is the purpose of the & character at the end of a command line?

- A. It causes standard error to be unbuffered.
- B. It causes the command to be run in the background of the current shell.
- C. It puts the command under the job control facilities of the current shell.
- D. It causes the command to be run as a child of the initial login shell of the user.

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 22**

Which of the following commands will print important system information such as the kernel version and machine hardware name?

- A. sysinfo
- B. uname
- C. lspci
- D. arch

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- E. info

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 23**

During a system boot cycle, what is the program that is run after the BIOS completes its tasks?

- A. The bootloader
- B. The inetd program
- C. The init program
- D. The kernel

**Correct Answer:** A

**Section:** (none)

**Explanation**

**QUESTION 24**

Which command will display messages from the kernel that were output during the normal bootup sequence?

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

dmesg

/bin/dmesg

**QUESTION 25**

Which of the following commands will load a kernel module along with any required dependency modules?

- A. depmod
- B. insmod
- C. modprobe
- D. module\_install
- E. loadmod

**Correct Answer:** C

**Section:** (none)

**Explanation**

**QUESTION 26**

What 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**

#### **QUESTION 27**

After running the command `umount /mnt`, the following error message is displayed:  
`umount: /mnt: device is busy`. What is a common reason for this message?

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- A. The kernel has not finished flushing disk writes to the mounted device.
- B. A user has a file open in the `/mnt` directory.
- C. The previous `rm` command has not finished.
- D. The files in `/mnt` have been scanned and added to the `locate` database.
- E. The kernel thinks that a process is about to open a file in `/mnt` for reading.

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 28**

Which of the following commands will print the amount of disk space used by files specified on the command line?

- A. `dc`
- B. `dd`
- C. `df`
- D. `du`

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### **QUESTION 29**

Which of the following commands can be used to locate programs and their corresponding man pages and configuration files?

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

**Correct Answer:** E

**Section:** (none)

**Explanation**

#### **QUESTION 30**

Which `chown` command will change the ownership to `dave` and the group to `staff` on a file named `data.txt`?

- A. `chown dave/staff data.txt`
- B. `chown -u dave -g staff data.txt`
- C. `chown -user dave -group staff data.txt`
- D. `chown dave:staff data.txt`

**Correct Answer:** D

**Section:** (none)

**Explanation**

### QUESTION 31

Which of the following commands enables the setuid (suid) permission on the executable called `/bin/foo`?

- A. `chmod 1755 /bin/foo`
- B. `chmod 4755 /bin/foo`  
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- C. `chown u-s /bin/foo`
- D. `chmod 755+s /bin/foo`

**Correct Answer:** B

**Section:** (none)

**Explanation**

### QUESTION 32

Instead of supplying an explicit device in `/etc/fstab` for mounting, what other options may be used to identify the intended partition? (Select TWO correct answers)

- A. FIND
- B. ID
- C. LABEL
- D. NAME
- E. UUID

**Correct Answer:** CE

**Section:** (none)

**Explanation**

### QUESTION 33

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

- A. `/etc/inittab`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

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

A. /etc/inittab

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

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 drives?

A.

B.

C.

D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

interrupts

/proc/interrupts

**QUESTION 36**

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:**

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**QUESTION 37**

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

A. External Serial Fax/modem

B. External USB Fax/modem

C. Internal ISA Fax/modem

D. Internal PCI Fax/modem

**Correct Answer:** A

**Section:** (none)

**Explanation**

**QUESTION 38**

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 no available in Linux.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**QUESTION 39**

You have just upgraded your PC to a 60 gigabyte IDE drive. While partitioning the drive, you notice that only 32 gigabytes are available. Which of the following will most likely allow you to use the entire drive?

- A. Create two smaller partitions of 30 gigabytes each.
- B. Set the PC BIOS to use LBA mode.
- C. Create a partition that resides entirely below the first 1024 cylinders.
- D. Use GRUB or the latest version of LILO as a bootloader.
- E. Upgrade the PC BIOS to the latest version available.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**QUESTION 40**

The lspci command can display information about devices except the following:

- 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**

**QUESTION 41**

If Linux detects an ACPI BIOS on bootup, what does it automatically deactivate?

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- A. PnP
- B. PCI
- C. ATA
- D. APM

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 42**

What command would help you identify the I/O address range being used by the network card?

- A. cat/proc/modules
- B. cat/proc/devices
- C. cat/proc/meminfo
- D. cat/io/dma
- E. cat/proc/ioports

**Correct Answer:** E

**Section:** (none)

**Explanation**

**QUESTION 43**

What program is needed to establish a PPP link to another computer?

- A. pppd
- B. wvdial
- C. papd
- D. kppp

**Correct Answer:** A

**Section:** (none)

**Explanation**

**QUESTION 44**

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

- A.
- B.
- C.
- D.

**Correct Answer:**

**Section:** (none)

**Explanation**

**Explanation/Reference:**

setserial

/bin/setserial

**QUESTION 45**

You need to know where all the configuration files for the installed package named "postfix" are located. Assuming it was installed with rpm, which command will list this information for you?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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**QUESTION 46**

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**

**QUESTION 47**

While installing from source code you don't see the configuration script. What command can you run to compile the code?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**QUESTION 48**

You have an updated RPM called screensaver-1.1.i386.rpm. You have version 1.0 installed. Using RPM, how do you view the changelog of this file to see if you should install the update?

- A. rpm -qp --changelogscreensaver-1.1.i386.rpm
- B. rpm --changelog screensaver-1.1.i386.rpm
- C. rpm -qc screensaver-1.1.i386.rpm



D. rpm -showchangelog screensaver-1.1.i386.rpm

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 49**

You are about to install a new program on an RPM based Linux system. Which of the following would be the best way to accomplish this?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### **QUESTION 50**

You are installing Linux on a workstation for a new employee. Which partition should be largest?

- A. /
- B. /boot  
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- C. /lib
- D. /usr

**Correct Answer:** D

**Section:** (none)

**Explanation**

## Exam F

### QUESTION 1

How can you 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**

### QUESTION 2

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 `ldconfig`, however the system still cannot find the shared libraries. What is most likely the cause of this?

- 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**

### QUESTION 3

Where can lilo place boot code?

- 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**

### QUESTION 4

Where does lilo store its boot information?

- A. Boot ROM
- B. BootRAM
- C. Master Boot Record
- D. `/boot` partition

**Correct Answer:** C

**Section:** (none)

## Explanation

### Explanation/Reference:

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### QUESTION 5

To what environment variable will you assign or append a value if you need 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**

### QUESTION 6

Which command will allow you to find a specific installed package?

- A. rpm -- list rpmname
- B. rpm -qvl rpmname
- C. rpm rpmname
- D. rpm -qv rpmname
- E. rpm -f rpmname

**Correct Answer:** D

**Section:** (none)

**Explanation**

### QUESTION 7

Which of the following is very important when installing from source code (Check TWO that apply)?

- A. Read all documentation included with the source code.
- B. Reboot after installing all programs.
- C. Manually check to see if all dependencies are met.
- D. Use rpm or dpkg to verify the installation.
- E. Do not install binaries as the root user.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

### QUESTION 8

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

A. /home

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 9

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

A. swap

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

You are building a server that will undergo many hardware and operating system upgrades. The

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server is the file server for all users on your 100 user network. Which directory should have its own mountpoint and/or hard drive?

A. /boot

B. /sbin

C. /home

D. /etc

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### QUESTION 11

What file is read by the program ldconfig?

A. /lib/ld.so

B. /etc/ld.so.conf

C. /etc/ld.so.cache

D. /etc/modules.conf

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### QUESTION 12

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

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

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

### QUESTION 13

You see following output while trying to install an updated package: [root@example pub]# rpm -I gthumb-2.2.0.i386.rpm package gthumb- 1.0.1.i386.rpm is already installed. Which command will allow you to install the updated version?

- A. rpm -i gthumb-2.2.0.i386.rpm
- B. rpm -ivh gthumb-2.2.0.i386.rpm
- C. rpm -U gthumb-2.2.0.i386.rpm
- D. rpm -qu gthumb-2.2.0.i386.rpm
- E. rpm -qiv gthumb-2.2.0.i386.rpm

**Correct Answer:** C

**Section:** (none)

**Explanation**

### QUESTION 14

Which of the following would do the same as the command `cat < file1.txt > file2.txt`?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

### QUESTION 15

What command is used to display a file in octal format?

- A.
- B.
- C.

D.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

hexdump

/usr/bin/hexdump

#### **QUESTION 16**

You wish to execute two commands, one after the other. However, you only want the second command to execute if the first is successful. Which character(s) do you put between the commands on the command line to accomplish this?

A. &&

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 17**

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**

#### **QUESTION 18**

You wish to send the output of a command to standard output (stdout) and save it to a file. The command to use is \_\_\_\_\_. (Do not specify arguments)

A. tee

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 19**

As root you have navigated to directory /B. You wish to move all of the files and directories from directory /A to directory /B. Which of the following options would be the most appropriate command line to execute this task?

- A. cp /a/\* .
- B. mv -f /A/\* .
- C. mv -Rf/a/\* .
- D. cp -f /a/\* ..  
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- E. cp -rf /A/\* /b/

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### **QUESTION 20**

What key sequence will suspend the current process and return you to a shell prompt?

- A. Ctrl-z
- B. Ctrl-c
- C. Ctrl-x
- D. Ctrl-d

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### **QUESTION 21**

Which TWO commands will find the path for the binary vim?

- A. man vim
- B. whereis vim
- C. apropos vim
- D. which vim

**Correct Answer:** BD

**Section:** (none)

**Explanation**

#### **QUESTION 22**

What command returns the first few lines of a given file?

- A. head

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 23**

What command changes the priority of the process running with process id of 12345 to the highest priority?

- A. /usr/bin/renice +20 1234
- B. /usr/bin/renice -20 12345
- C. /bin/setpriority +20 12345
- D. /bin/setpriority -20 12345

**Correct Answer:** B

**Section:** (none)

**Explanation**

#### QUESTION 24

You want to save vi changes to the file myfile with :w!, but vi complains it can not 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  
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- D. :?ls -l myfile

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### QUESTION 25

Which of the following GNU commands would be the most likely command you'd use to find the system load average?

- A. top
- B. nice
- C. loadavg
- D. cpustat
- E. ps

**Correct Answer:** A

**Section:** (none)

**Explanation**

#### QUESTION 26

Which of the following commands is equivalent to kill 1234?

- A. kill -1 1234 or kill -s SIGHUP 1234
- B. kill -2 1234 or kill -s SIGINT 1234
- C. kill -3 1234 or kill -s SIGQUIT 1234
- D. kill -9 1234 or kill -s SIGKILL 1234
- E. kill -15 1234 or kill -s SIGTERM 1234

**Correct Answer:** E

**Section:** (none)



## Explanation

### QUESTION 27

What command would execute cmd1 followed by cmd2, regardless of the exit status of cmd1?

- A. cmd1 cmd2
- B. cmd1 | cmd2
- C. cmd1 ; cmd2
- D. cmd1 &&cmd2
- E. cmd1 || cmd2

**Correct Answer:** C

**Section:** (none)

**Explanation**

### QUESTION 28

You have a text file with tab-separated values, but your application needs them space-separated. What command would you use from the Bash shell to achieve this? Please fill in the command only, without any options.

- A. expand

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 29

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

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

### QUESTION 30

What command will remove duplicate lines from a sorted file?

- A. filter
- B. trim
- C. uniq

D. wc

**Correct Answer:** C

**Section:** (none)

**Explanation**

### QUESTION 31

Which command line option would you 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**

### QUESTION 32

What is the disadvantage of using the command kill -9 ?

- A. A core dump file will be created.
- B. It affects the entire process group.
- C. It makes excessive use of systemresources.
- D. The action can be blocked by buggy or malicious processes.
- E. The affected process is unable to clean up before exiting.

**Correct Answer:** E

**Section:** (none)

**Explanation**

### QUESTION 33

To prevent a command run as root from sending both standard out (stdout) and standard error (stderr) to any terminal or other file or device, which of the following strings should be appended to the command?

- A. >/dev/null
- B. >/dev/null 1>&2
- C. >/dev/null 2>&1  
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- D. 1>&2 >/dev/null
- E. 2>&1 >/dev/null

**Correct Answer:** C

**Section:** (none)

**Explanation**

### QUESTION 34

You want to search the file myfile for all occurrences of string containing at least five characters, where character number 2 and 5 are 'a' and character number 3 is NOT 'b'. Which command would you use?

- A. `grep a^b*a myfile`
- B. `grep .a[^b].a myfile`
- C. `grep .[a].*[a] myfile`
- D. `grep .a^b..a myfile`

**Correct Answer:** B

**Section:** (none)

**Explanation**

### QUESTION 35

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 named by the environment variable TEST.

**Correct Answer:** B

**Section:** (none)

**Explanation**

### QUESTION 36

You want to the command foo to take its input from the file foobar and send its output to the program bar. Which of the following command lines will do this?

- A. `foo < foobar | bar`
- B. `foo < foobar > bar`
- C. `foo | foobar > bar`
- D. `foo | bar < foobar`
- E. `foo > bar < foobar`

**Correct Answer:** A

**Section:** (none)

**Explanation**

### QUESTION 37

The command `cat /proc/dma` will show you what?

- 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:** B

**Section:** (none)

## Explanation

### Explanation/Reference:

"First Test, First Pass" - [www.lead2pass.com](http://www.lead2pass.com) 65  
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### QUESTION 38

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**

### QUESTION 39

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:** E

**Section:** (none)

**Explanation**

### QUESTION 40

Which of the following would allow you to execute the make command as a background task in the shell?

- A. make; bg
- B. make &
- C. make && bg
- D. make &&
- E. nohup make

**Correct Answer:** B

**Section:** (none)

**Explanation**

### Explanation/Reference:

"First Test, First Pass" - [www.lead2pass.com](http://www.lead2pass.com) 66  
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