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101-350

**LPI Level 1 Exam 101, Junior Level Linux Certification, Part 1 of 2**

- I) These are the most accurate study questions. Just focus on these and sit in your exam.
- II) I am writing to proudly announce that I'd passed my Exam with 93% scores.
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### Sections

1. System Architecture
2. Linux Installation and Package Management
3. GNU and Unix Commands
4. Devices, Linux Filesystems, Filesystem Hierarchy Standard

## Exam A

### QUESTION 1

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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

genuine answer.

### QUESTION 2

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

**Correct Answer:** dmesg, /bin/dmesg

**Section:** System Architecture

**Explanation**

**Explanation/Reference:**

### QUESTION 3

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)

**Correct Answer:** dmesg, /bin/dmesg

**Section:** System Architecture

**Explanation**

**Explanation/Reference:**

### QUESTION 4

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

**Correct Answer:** /tmp, tmp

**Section:** Linux Installation and Package Management

**Explanation**

**Explanation/Reference:**

## QUESTION 5

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

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

**Section:** Linux Installation and Package Management

**Explanation**

**Explanation/Reference:**

## QUESTION 6

An administrator has issued the following command:

```
grub-install --root-directory=/custom-grub /dev/sda
```

In which directory will new configuration files be found? (Provide the full directory path only without the filename)

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

**Section:** Linux Installation and Package Management

**Explanation**

**Explanation/Reference:**

## QUESTION 7

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

**Correct Answer:** Answer: mtab

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

proper answer.

## QUESTION 8

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

**Correct Answer:** Answer: quotaon, /sbin/quotaon

**Section: Devices, Linux Filesystems, Filesystem Hierarchy Standard**

**Explanation**

**Explanation/Reference:**

#### QUESTION 9

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?

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

**Section: Devices, Linux Filesystems, Filesystem Hierarchy Standard**

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

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

**Correct Answer:** Answer: mount, /bin/mount, df, /bin/df

**Section: Devices, Linux Filesystems, Filesystem Hierarchy Standard**

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

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

**Correct Answer:** Answer: /sbin/mkswap, mkswap

**Section: Devices, Linux Filesystems, Filesystem Hierarchy Standard**

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

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

**Correct Answer:** Answer: 0077, 077

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

## QUESTION 13

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

**Correct Answer:** Answer: updatedb, /usr/bin/updatedb

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

## QUESTION 14

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:** System Architecture

**Explanation**

**Explanation/Reference:**

## QUESTION 15

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 hard disk because GRUB was unable to determine the size and geometry of the disk
- C. One or more of the filesystems on the hard disk has errors and a filesystem check should be run
- D. The BIOS was unable to read the necessary data from the Master Boot Record to begin the boot process

**Correct Answer:** B  
**Section:** System Architecture  
**Explanation**

**Explanation/Reference:**

**QUESTION 16**

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:** System Architecture  
**Explanation**

**Explanation/Reference:**

**QUESTION 17**

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

**Correct Answer:** Answer: swapoff, /sbin/swapoff  
**Section:** Linux Installation and Package Management  
**Explanation**

**Explanation/Reference:**

**QUESTION 18**

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

**Correct Answer:** Answer: /usr/bin/ldd /usr/lib/libpng12.so, ldd /usr/lib/libpng12.so  
**Section:** Linux Installation and Package Management  
**Explanation**

**Explanation/Reference:**

**QUESTION 19**

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

**Correct Answer:** Answer: /var, /var/, var, var/

**Section: Linux Installation and Package Management**

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

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

**Correct Answer:** Answer: 19, +19

**Section: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

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.)

**Correct Answer:** Answer: dd, /bin/dd

**Section: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

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.

**Correct Answer:** Answer: 17y, 17yy, 17YY, 17Y

**Section: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

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

**Correct Answer:** Answer: renice, /usr/bin/renice

**Section: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

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

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

**Correct Answer:** B

**Section: Linux Installation and Package Management**

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

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: Linux Installation and Package Management**



### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 26**

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

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

**Correct Answer: B**

**Section: Linux Installation and Package Management**

### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 27**

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: Linux Installation and Package Management**

### **Explanation**

### **Explanation/Reference:**

#### **QUESTION 28**

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 installed?

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

**Correct Answer:** B

**Section:** Linux Installation and Package Management

**Explanation**

**Explanation/Reference:**

#### **QUESTION 29**

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:** Linux Installation and Package Management

**Explanation**

**Explanation/Reference:**

nice.

#### **QUESTION 30**

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:** Linux Installation and Package Management

### **Explanation**

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

great answer.

### **QUESTION 31**

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

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

**Correct Answer:** D

**Section:** Linux Installation and Package Management

### **Explanation**

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

### **QUESTION 32**

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:** Linux Installation and Package Management

### **Explanation**

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

good answer.

### **QUESTION 33**

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:** System Architecture

**Explanation**

**Explanation/Reference:**

## QUESTION 34

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:** System Architecture

**Explanation**

**Explanation/Reference:**

rightful answer.

## QUESTION 35

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
- E. info

**Correct Answer:** B

**Section:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

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

**Correct Answer:** Answer: menu.lst, grub.conf, grub.cfg

**Section: Linux Installation and Package Management**

**Explanation**

**Explanation/Reference:**

Best answer.

**QUESTION 37**

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:** A

**Section: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

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: GNU and Unix Commands**

## Explanation

### Explanation/Reference:

suitable.

### QUESTION 39

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:** GNU and Unix Commands

### Explanation

### Explanation/Reference:

true answer.

### QUESTION 40

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:** GNU and Unix Commands

### Explanation

### Explanation/Reference:

100% fit answer.

### QUESTION 41

Which of the following commands will produce the following output?

```
USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND root 1255 4.4 0.9 60716 34824 tty7 Ss+ 09:25 19:04 /usr/bin/X :0 - root 2016
0.0 0.0 1792 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 1624 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. proclis
- C. netstat
- D. ps

**Correct Answer:** D

**Section:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

#### **QUESTION 42**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

#### **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:** C

**Section: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

Which signal is sent to a suspended process in order to have it resume execution?

- A. CONT
- B. EXEC
- C. RESM
- D. UNSP

**Correct Answer: A**

**Section: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:**

right answer.

**QUESTION 45**

Which vi command will change modes so that text can be entered by typing in the keyboard?

- A. e
- B. i
- C. t
- D. w

**Correct Answer: B**

**Section: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:**

valid answer.

**QUESTION 46**

What is the purpose of the xargs command?

- A. It passes argument to an X server.



- B. It will read standard input and build up commands lines to execute.
- C. It helps shell scripts take variable argument lists.
- D. It will ask a question, graphically, and return the answer to the shell.
- E. It will allow users to specify long options for commands that normally only accept short options.

**Correct Answer:** B

**Section:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

appropriate.

## QUESTION 47

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

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

**Correct Answer:** D

**Section:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

well defined.

## QUESTION 48

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 any trailing spaces, is reached?

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

**Correct Answer:** A

**Section:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

best answer.

**QUESTION 49**

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 -d archive.tgz | tar tvf -
- D. tar cf archive.tgz

**Correct Answer: B**

**Section: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:**

identifiable

**QUESTION 50**

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

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

**Correct Answer: D**

**Section: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:****QUESTION 51**

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: GNU and Unix Commands**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 52**

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: System Architecture**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 53**

The system is having trouble and the engineer wants to bypass the usual /sbin/init start up 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: System Architecture**

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

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:** System Architecture

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

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:** System Architecture

**Explanation**

**Explanation/Reference:**

**QUESTION 56**

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

**Correct Answer:** reconfigure

**Section:** Linux Installation and Package Management

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 57**

Given the following output:

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

Which of the following commands will resume executing the stopped process and make it the current job?

- A. bgmyapp
- B. continue myapp
- C. exec myapp
- D. fgmyapp
- E. myapp&

**Correct Answer: D**

**Section: GNU and Unix Commands**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 58**

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: GNU and Unix Commands**

## **Explanation**

### **Explanation/Reference:**

**QUESTION 59**

In compliance with the FHS, in which of the directories 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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

**QUESTION 60**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

**QUESTION 61**

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

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

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

**Correct Answer:** D

**Section:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

#### **QUESTION 62**

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:** Linux Installation and Package Management

**Explanation**

**Explanation/Reference:**

#### **QUESTION 63**

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 -ie "s/1/2/" /tmp/myfile.txt
- D. echo -n "Hello" >/tmp/myfile.txt
- E. touch /tmp/myfile.txt

**Correct Answer:** A

**Section:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

exact answer.

**QUESTION 64**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

**QUESTION 65**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

identifiable.

**QUESTION 66**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

**QUESTION 67**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

**QUESTION 68**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

**QUESTION 69**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

valid.

#### **QUESTION 70**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

#### **QUESTION 71**

What is the effect on the grep command when the -v option is used?

- A. It enables multi-line matching on the input.
- B. It is a shortcut for the vgrep command.
- C. It sets the verbose flag and increases the amount of information that is provided.
- D. It inverts the matching to select non-matching lines.

**Correct Answer:** D

**Section:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

**QUESTION 72**

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 long directory listing with ls -l will indicate the link with "->"
- E. The file permissions will be prefixed by an "h", eg. hrwxr-xr-x

**Correct Answer: C**

**Section: Devices, Linux Filesystems, Filesystem Hierarchy Standard**

**Explanation**

**Explanation/Reference:**

**QUESTION 73**

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: Devices, Linux Filesystems, Filesystem Hierarchy Standard**

**Explanation**

**Explanation/Reference:**

**QUESTION 74**

Which command can be used to display the inode number of a given file?

- A. fstat
- B. istat

- C. ls
- D. ps

**Correct Answer:** C

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

definite answer.

## QUESTION 75

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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

## QUESTION 76

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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

**QUESTION 77**

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

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

**Correct Answer:** B

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**  
meaningful answer.

**QUESTION 78**

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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**  
outclass.

**QUESTION 79**

Which shell command is used to continue background execution of a suspended command?

- A. &
- B. bg
- C. cont
- D. exec

E. :&

**Correct Answer:** B

**Section:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

mentioned answer is updated.

#### **QUESTION 80**

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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

#### **QUESTION 81**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

actual answer.

#### **QUESTION 82**

In order to use the output of ls to overwrite 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:** A

**Section:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

properly answered.

## QUESTION 83

You want the default permissions for your files to be -rw-r-----. Which is the most useful setting for umask below?

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

**Correct Answer:** D

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

## QUESTION 84

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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

**QUESTION 85**

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 to files and directories
- C. users to predict the location of installed files and directories
- D. users to predict how the filesystem should be formatted according to need

**Correct Answer:** AC

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

exact answer.

**QUESTION 86**

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 read-only.
- 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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

accurate.

**QUESTION 87**

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

- A. chowndave/staff data.txt
- B. chown -u dave -g staff data.txt



- C. `chown --user dave --group staff data.txt`
- D. `chowndave:staff data.txt`

**Correct Answer:** D

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

#### **QUESTION 88**

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`
- C. `chown u-s /bin/foo`
- D. `chmod 755+s /bin/foo`

**Correct Answer:** B

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

#### **QUESTION 89**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

Excellent answer.

**QUESTION 90**

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:** GNU and Unix Commands

**Explanation**

**Explanation/Reference:**

**QUESTION 91**

Which utility would you use to change how often a filesystem check is performed on 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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

**QUESTION 92**

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

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

**Correct Answer:** B

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

## QUESTION 93

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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

## QUESTION 94

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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

## QUESTION 95

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:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

#### **QUESTION 96**

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

- A. /dev/hda1
- B. /dev/sda2
- C. /dev/sd0a2
- D. /dev/sd1p2

**Correct Answer:** B

**Section:** Devices, Linux Filesystems, Filesystem Hierarchy Standard

**Explanation**

**Explanation/Reference:**

outstanding answer.

#### **QUESTION 97**

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

**Correct Answer:** /etc/inittab

**Section:** System Architecture

**Explanation**

**Explanation/Reference:**

outclass answer.

#### **QUESTION 98**

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

**Correct Answer:** cmdline, /proc/cmdline

**Section:** System Architecture

**Explanation**

**Explanation/Reference:**

## QUESTION 99

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

**Correct Answer:** interrupts, /proc/interrupts

**Section:** System Architecture

**Explanation**

**Explanation/Reference:**

## QUESTION 100

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

**Correct Answer:** bus

**Section:** System Architecture

**Explanation**

**Explanation/Reference:**

true.