QUESTION NO: 1

Which SysV init 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

Answer: C

QUESTION NO: 2

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

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

Answer: A

QUESTION NO: 3

Which run levels should never be declared as the default run level when using SysV init? (Choose TWO correct answers.)

A. 0
B. 1
C. 3
D. 5
E. 6

Answer: A,E

QUESTION NO: 4

Which of the following statements is correct when talking about /proc/?

A. All changes to files in /proc/ are stored in /etc/proc.d/ and restored on reboot.
B. All files within /proc/ are read-only and their contents cannot be changed.
C. All changes to files in /proc/ are immediately recognized by the kernel.
D. All files within /proc/ are only readable by the root user.

Answer: C

QUESTION NO: 5

What of the following statements are true regarding /dev/ when using udev? (Choose TWO correct answers.)

A. Entries for all possible devices get created on boot even if those devices are not connected.
B. Additional rules for udev can be created by adding them to /etc/udev/rules.d/.
C. When using udev, it is not possible to create block or character devices in /dev/ using mknod.
D. The /dev/ directory is a filesystem of type tmpfs and is mounted by udev during system startup.
E. The content of /dev/ is stored in /etc/udev/dev and is restored during system startup.

Answer: B,D

QUESTION NO: 6

Which of the following information is stored within the BIOS? (Choose TWO correct answers.)

A. Boot device order
B. Linux kernel version
C. Timezone
D. Hardware configuration
E. The system's hostname

Answer: A,D

QUESTION NO: 7

Which of the following commands reboots the system when using SysV init? (Choose TWO correct answers.)

A. shutdown -r now
B. shutdown -r "rebooting"
C. telinit 6
D. telinit 0
E. shutdown -k now "rebooting"

Answer: A,C

QUESTION NO: 8

Which of the following are init systems used within Linux systems? (Choose THREE correct answers.)

A. startd
B. systemd
C. Upstart
D. SysInit
E. SysV init

Answer: B,C,E

QUESTION NO: 9

Which file in the /proc filesystem lists parameters passed from the bootloader to the kernel? (Specify the file name only without any path.)

Answer: cmdline, /proc/cmdline

QUESTION NO: 10

What information can the lspci command display about the system hardware? (Choose THREE correct answers.)

A. Device IRQ settings
B. PCI bus speed
C. System battery type
D. Device vendor identification
E. Ethernet MAC address

Answer: A,B,D

QUESTION NO: 11

Which of the following commands brings a system running SysV init into a state in which it is safe to perform maintenance tasks? (Choose TWO correct answers.)

A. shutdown -R 1 now
B. shutdown -single now
C. init 1
D. telinit 1
E. runlevel 1

Answer: C,D

QUESTION NO: 12

What is the first program that is usually started, at boot time, by the Linux kernel when using SysV init?

A. /lib/init.so
B. /sbin/init
C. /etc/rc.d/rcinit
D. /proc/sys/kernel/init
E. /boot/init

Answer: B

QUESTION NO: 13

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

Answer: dmesg, /bin/dmesg

QUESTION NO: 14

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

Answer: D

QUESTION NO: 15

Which of the following kernel parameters instructs the kernel to suppress most boot messages?

A. silent
B. verbose=0
C. nomesg
D. quiet

Answer: D

QUESTION NO: 16

Which of the following options for the kernel's command line changes the systemd boot target to

rescue.target instead of the default target?

A. systemd.target=rescue.target
B. systemd.runlevel=rescue.target
C. systemd.service=rescue.target
D. systemd.default=rescue.target
E. systemd.unit=rescue.target

Answer: E

QUESTION NO: 17

After modifying GNU GRUB's configuration file, which command must be run for the changes to take effect?

A. kill -HUP $(pidof grub)
B. grub-install
C. grub
D. No action is required

Answer: D

QUESTION NO: 18

Which of the following commands is used to update the list of available packages when using dpkg based package management?

A. apt-get update
B. apt-get upgrade
C. apt-cache update
D. apt-get refresh
E. apt-cache upgrade

Answer: A

QUESTION NO: 19

Which of the following commands lists the dependencies of a given dpkg package?

A. apt-cache depends-on package
B. apt-cache dependencies package
C. apt-cache depends package
D. apt-cache requires package

Answer: C

QUESTION NO: 20

Which of the following options is used in a GRUB Legacy configuration file to define the amount of time that the GRUB menu will be shown to the user?

A. hidemenu
B. splash
C. timeout
D. showmenu

Answer: C

QUESTION NO: 21

What can the Logical Volume Manager (LVM) be used for? (Choose THREE correct answers.)

A. To create RAID 9 arrays.
B. To dynamically change the size of logical volumes.
C. To encrypt logical volumes.
D. To create snapshots.
E. To dynamically create or delete logical volumes.

Answer: B,D,E

QUESTION NO: 22

Which of the following commands updates the linker cache of shared libraries?

A. mkcache
B. soconfig
C. mkldconfig
D. lddconfig
E. ldconfig

Answer: E

QUESTION NO: 23

Which of the following commands lists all currently installed packages when using RPM package management?

A. yum --query --all
B. yum --list --installed
C. rpm --query --all
D. rpm --list–installed

Answer: C

QUESTION NO: 24

Which of the following commands can be used to download the RPM package kernel without installing it?

A. yum download --no-install kernel
B. yumdownloader kernel
C. rpm --download --package kernel
D. rpmdownload kernel

Answer: B

QUESTION NO: 25

When using rpm --verify to check files created during the installation of RPM packages, which of the following information is taken into consideration? (Choose THREE correct answers.)

A. Timestamps
B. MD5 checksums
C. Inodes
D. File sizes
E. GnuPG signatures

Answer: A,B,D

QUESTION NO: 26

Which of the following is correct when talking about mount points?

A. Every existing directory can be used as a mount point.
B. Only empty directories can be used as a mount point.
C. Directories need to have the SetUID flag set to be used as a mount point.
D. Files within a directory are deleted when the directory is used as a mount point.

Answer: A

QUESTION NO: 27

Which function key is used to start Safe Mode in Windows NT?

A. F10
B. F8
C. F6
D. Windows NT does not support Safe Mode

Answer: D

QUESTION NO: 28

Which of the following environment variables overrides or extends the list of directories holding shared libraries?

A. LD_LOAD_PATH
B. LD_LIB_PATH
C. LD_LIBRARY_PATH
D. LD_SHARE_PATH
E. LD_RUN_PATH

Answer: C

QUESTION NO: 29

Which world-writable directory should be placed on a separate partition in order to prevent users from being able to fill up the / filesystem? (Specify the full path to the directory.)

Answer: /tmp, tmp, /var/tmp, /tmp/, /var/tmp/

QUESTION NO: 30

Which RPM command will output the name of the package which supplied 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 -qi /etc/exports

Answer: B

QUESTION NO: 31

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

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

QUESTION NO: 32

What is the name of the main configuration file for GNU GRUB? (Specify the file name only without any path.)

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

QUESTION NO: 33

When removing a package, which of the following dpkg options will completely remove the files including configuration files?

A. --clean
B. --delete
C. --purge
D. –remove

Answer: C

QUESTION NO: 34

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

Answer: D

QUESTION NO: 35

Which option to the yum command will update the entire system? (Specify ONLY the option name without any additional parameters.)

Answer: update, upgrade

QUESTION NO: 36

Which command will disable swapping on a device? (Specify ONLY the command without any path or parameters.)

Answer: swapoff, /sbin/swapoff

QUESTION NO: 37

Which Debian package management tool asks the configuration questions for a specific already installed package just as if the package were being installed for the first time? (Specify ONLY the command without any path or parameters.)

Answer: dpkg-reconfigure

QUESTION NO: 38

Which of the following commands overwrites the bootloader located on /dev/sda without overwriting the partition table or any data following it?

A. dd if=/dev/zero of=/dev/sda bs=512
B. dd if=/dev/zero of=/dev/sda bs=512 count=1
C. dd if=/dev/zero of=/dev/sda bs=440 count=1
D. dd if=/dev/zero of=/dev/sda bs=440

Answer: C

QUESTION NO: 39

Which of the following commands can be used to create a USB storage media from a disk image?

A. gdisk
B. dd
C. cc
D. fdisk
E. mount

Answer: B

QUESTION NO: 40

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

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

Answer: C

QUESTION NO: 41

What command will generate a list of user names from /etc/passwd along with their login shell?

A. column -s : 1,7 /etc/passwd
B. chop -c 1,7 /etc/passwd
C. colrm 1,7 /etc/passwd
D. cut -d: -f1,7 /etc/passwd

Answer: D

QUESTION NO: 42

In a nested directory structure, which find command line option would be used to restrict the command to searching down a particular number of subdirectories?

A. -dirmax
B. -maxdepth
C. -maxlevels
D. -n
E. -s

Answer: B

QUESTION NO: 43

Which of the following statements is correct regarding the command foo 1> bar?

A. The stdout from the command foo is appended to the file bar.
B. The stdout from the command foo overwrites the file bar.
C. The command foo receives its stdin from the file bar.
D. The command foo receives its stdin from the stdout of the command bar.
E. The stderr from the command foo is saved to the file bar.

Answer: B

QUESTION NO: 44

Which of the following commands kills the process with the PID 123 but allows the process to "clean up" before exiting?

A. kill -PIPE 123
B. kill -KILL 123
C. kill -STOP 123
D. kill -TERM 123

Answer: D

QUESTION NO: 45

Which signal is missing from the following command that is commonly used to instruct a daemon to reinitialize itself, including reading configuration files?

killall -s _____ daemon

Answer: HUP, SIGHUP, 1

QUESTION NO: 46

What is the maximum niceness value that a regular user can assign to a process with the nice command when executing a new process?

A. 9
B. 19
C. 49
D. 99

Answer: B

QUESTION NO: 47

Immediately after deleting 3 lines of text in vi and moving the cursor to a different line, which single character command will insert the deleted content below the current line?

A. i (lowercase)
B. P (uppercase)
C. p (lowercase)
D. U (uppercase)
E. u (lowercase)

Answer: C

QUESTION NO: 48
A user accidentally created the subdirectory \dir in his home directory. Which of the following

commands will remove that directory?

A. rmdir '~/\dir'
B. rmdir "~/\dir"
C. rmdir ~/'dir'
D. rmdir ~/\dir
E. rmdir ~/\\dir

Answer: E

QUESTION NO: 49

In compliance with the FHS, in which of the directories are man pages found?

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

Answer: A

QUESTION NO: 50

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

Answer: D

QUESTION NO: 51

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

A. It allows disks to be mounted remotely.
B. It runs a command as a process in a subshell.
C. It makes the command history available to subshells.
D. It sets up environment variables for applications.
E. It shares NFS partitions for use by other systems on the network.

Answer: D

QUESTION NO: 52

What is the output of the following command?

echo "Hello World" | tr -d aieou

A. Hello World
B. eoo
C. Hll Wrld
D. eoo Hll Wrld

Answer: C

QUESTION NO: 53

Which of the following characters can be combined with a separator string in order to read from the current input source until the separator string, which is on a separate line and without any trailing spaces, is reached?

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

Answer: A

QUESTION NO: 54

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

Answer: A

QUESTION NO: 55

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

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

Answer: B

QUESTION NO: 56

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.

Answer: B

QUESTION NO: 57

What is the difference between the i and a commands of the vi editor?

A. i (interactive) requires the user to explicitly switch between vi modes whereas a (automatic) switches modes automatically.
B. i (insert) inserts text before the current cursor position whereas a (append) inserts text after the cursor.
C. i (independent rows) starts every new line at the first character whereas a (aligned rows) keeps the indentation of the previous line.
D. i (interrupt) temporarily suspends editing of a file to the background whereas a (abort) terminates editing.

Answer: B

QUESTION NO: 58

Which command displays a list of all background tasks running in the current shell? (Specify ONLY the command without any path or parameters.)

Answer: jobs

QUESTION NO: 59

Which of the following commands moves and resumes in the background the last stopped shell job?

A. run
B. bg
C. fg
D. back

Answer: B

QUESTION NO: 60

What is the effect of the egrep command when the -v option is used?

A. It enables color to highlight matching parts.
B. It only outputs non-matching lines.
C. It shows the command's version information.
D. It changes the output order showing the last matching line first.

Answer: B

QUESTION NO: 61

What does the ? symbol within regular expressions represent?

A. Match the preceding qualifier one or more times.
B. Match the preceding qualifier zero or more times.
C. Match the preceding qualifier zero or one times.
D. Match a literal ? character.

Answer: C

QUESTION NO: 62

In the vi editor, how can commands such as moving the cursor or copying lines into the buffer be issued multiple times or applied to multiple rows?

A. By using the command :repeat followed by the number and the command.
B. By specifying the number right in front of a command such as 4l or 2yj.
C. By selecting all affected lines using the shift and cursor keys before applying the command.
D. By issuing a command such as :set repetition=4 which repeats every subsequent command 4 times.

Answer: B

QUESTION NO: 63

Which of the following files, located in the user home directory, is used to store the Bash history?

A. .bash_history
B. .bash_histfile
C. .history
D. .bashrc_history
E. .history_bash

Answer: A

QUESTION NO: 64

Which Bash environment variable defines in which file the user history is stored when exiting a Bash process? (Specify ONLY the variable name.)

Answer: HISTFILE

QUESTION NO: 65

Which of the following commands displays 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

Answer: B

QUESTION NO: 66

Which grep command will print only the lines that do not end with a / in the file foo?

A. grep '/$' foo
B. grep '/#' foo
C. grep -v '/$' foo

D. grep -v '/#' foo

Answer: C

QUESTION NO: 67

Which of the following commands is used to change options and positional parameters for a running Bash?

A. history
B. set
C. bashconf
D. setsh
E. envsetup

Answer: B

QUESTION NO: 68

Which of the following commands replaces each occurrence of 'bob' in the file letter with 'Bob' and writes the result to the file newletter?

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

Answer: D

QUESTION NO: 69

From a Bash shell, which of the following commands directly executes the instruction from the file /usr/local/bin/runme.sh without starting a subshell? (Please select TWO answers.)

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

Answer: A,B

QUESTION NO: 70

Regarding the command:

nice -5 /usr/bin/prog

Which of the following statements is correct?

A. /usr/bin/prog is executed with a nice level of -5.
B. /usr/bin/prog is executed with a nice level of 5.
C. /usr/bin/prog is executed with a priority of -5.
D. /usr/bin/prog is executed with a priority of 5.

Answer: B

QUESTION NO: 71

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

A. &
B. bg
C. cont
D. exec
E. :&

Answer: B

QUESTION NO: 72

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

Answer: B

QUESTION NO: 73

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

Answer: D

QUESTION NO: 74

Which of the following sequences in the vi editor saves the opened document and exits the editor? (Choose TWO correct answers.)

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

Answer: A,D

QUESTION NO: 75

When starting a program with the nice command without any additional parameters, which nice level is set for the resulting process?

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

Answer: C

QUESTION NO: 76

Which of the following commands will reduce all consecutive spaces down to a single space?

A. tr '\s' ' ' < a.txt > b.txt
B. tr -c ' ' < a.txt > b.txt
C. tr -d ' ' < a.txt > b.txt
D. tr -r ' ' '\n' < a.txt > b.txt
E. tr -s ' ' < a.txt > b.txt

Answer: E

QUESTION NO: 77

Which character, added to the end of a command, runs that command in the background as a child process of the current shell?

A. !
B. +
C. &
D. %
E. #

Answer: C

QUESTION NO: 78

Which of the following commands will print the last 10 lines of a text file to the standard output?

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

Answer: D

QUESTION NO: 79

Which of the following commands prints a list of usernames (first column) and their primary group (fourth column) from the /etc/passwd file?

A. fmt -f 1,4 /etc/passwd
B. split -c 1,4 /etc/passwd
C. cut -d : -f 1,4 /etc/passwd
D. paste -f 1,4 /etc/passwd

Answer: C

QUESTION NO: 80

Which of the following signals is sent to a process when the key combination CTRL+C is pressed on the keyboard?

A. SIGTERM
B. SIGINT
C. SIGSTOP
D. SIGKILL

Answer: B

QUESTION NO: 81

What happens after issuing the command vi without any additional parameters?

A. vi starts and loads the last file used and moves the cursor to the position where vi was when it last exited.
B. vi starts and requires the user to explicitly either create a new or load an existing file.
C. vi exits with an error message as it cannot be invoked without a file name to operate on.
D. vi starts in command mode and opens a new empty file.
E. vi starts and opens a new file which is filled with the content of the vi buffer if the buffer contains text.

Answer: D

QUESTION NO: 82

Which of the following command sets the Bash variable named TEST with the content FOO?

A. set TEST="FOO"
B. TEST = "FOO"
C. var TEST="FOO"
D. TEST="FOO"

Answer: D

QUESTION NO: 83

Which variable defines the directories in which a Bash shell searches for executable commands?

A. BASHEXEC
B. BASHRC
C. PATH
D. EXECPATH

E. PATHRC

Answer: C

QUESTION NO: 84

Which of the following commands determines the type of a file by using a definition database file which contains information about all common file types?

A. magic
B. type
C. file
D. pmagic
E. hash

Answer: C

QUESTION NO: 85

Which command is used in a Linux environment to create a new directory? (Specify ONLY the command without any path or parameters.)

Answer: mkdir, /usr/bin/mkdir

QUESTION NO: 86

Which of the following commands prints all files and directories within the /tmp directory or its subdirectories which are also owned by the user root? (Choose TWO correct answers.)

A. find /tmp -uid root -print
B. find -path /tmp -uid root
C. find /tmp -user root -print
D. find /tmp -user root
E. find -path /tmp -user root–print

Answer: C,D

QUESTION NO: 87

When running the command

sed -e "s/a/b/" /tmp/file >/tmp/file

While /tmp/file contains data, why is /tmp/file empty afterwards?

A. The file order is incorrect. The destination file must be mentioned before the command to ensure redirection.
B. The command sed did not match anything in that file therefore the output is empty.
C. When the shell establishes the redirection it overwrites the target file before the redirected command starts and opens it for reading.
D. Redirection for shell commands do not work using the > character. It only works using the | character instead.

Answer: C

QUESTION NO: 88

When given the following command line.

echo "foo bar" | tee bar | cat

Which of the following output is created?

A. cat
B. foo bar
C. tee bar
D. bar
E. foo

Answer: B

QUESTION NO: 89

Which of the following commands can be used to determine how long the system has been running? (Choose TWO correct answers.)

A. uptime
B. up
C. top
D. uname -u
E. time–up

Answer: A,C

QUESTION NO: 90

Which of the following are valid stream redirection operators within Bash? (Choose THREE correct answers.)

A. <
B. <<<
C. >
D. >>>
E. %>

Answer: A,B,C

QUESTION NO: 91

After successfully creating a hard link called bar to the ordinary file foo, foo is deleted from the filesystem. Which of the following describes the resulting situation?

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. The user is prompted whether bar should be removed, too.

Answer: B

QUESTION NO: 92

After moving data to a new filesystem, how can the former path of the data be kept intact in order to avoid reconfiguration of existing applications? (Choose TWO correct answers.)

A. By creating an ACL redirection from the old to the new path of the data.
B. By creating a hard link from the old to the new path of the data.
C. By creating a symbolic link from the old to the new path of the data.
D. By running the command touch on the old path.
E. By mounting the new filesystem on the original path of the data.

Answer: C,E

QUESTION NO: 93

Which of the following commands changes the ownership of file.txt to the user dan and the group staff?

A. chown dan/staff file.txt
B. chown dan:staff file.txt
C. chown -u dan -g staff file.txt
D. chown dan -g staff file.txt

Answer: B

QUESTION NO: 94

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

A. chmod u=rwx,go=rx /bin/foo
B. chmod o+rwx,a+rx /bin/foo
C. chmod 577 /bin/foo

D. chmod 775 /bin/foo

Answer: A

QUESTION NO: 95

Which of the following commands can be used to search for the executable file foo when it has been placed in a directory not included in $PATH?

A. apropos
B. which
C. find
D. query
E. whereis

Answer: C

QUESTION NO: 96

What does the command mount -a do?

A. It ensures that all file systems listed with the option noauto in /etc/fstab are mounted.
B. It shows all mounted file systems that have been automatically mounted.
C. It opens an editor with root privileges and loads /etc/fstab for editing.
D. It ensures that all file systems listed with the option auto in /etc/fstab are mounted.
E. It ensures that all file systems listed in /etc/fstab are mounted regardless of their options.

Answer: D

QUESTION NO: 97

Which of the following settings for umask ensures that new files have the default permissions -rw-r----- ?

A. 0017

B. 0640
C. 0038
D. 0027

Answer: D

QUESTION NO: 98

Which of the following is the device file name for the second partition on the only SCSI drive?

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

Answer: B

QUESTION NO: 99

In order to display all currently mounted filesystems, which of the following commands could be used? (Choose TWO correct answers.)

A. cat /proc/self/mounts
B. free
C. mount
D. lsmounts
E. cat /proc/filesystems

Answer: A,C

QUESTION NO: 100

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

A. dirname
B. which
C. basename
D. query
E. whereis

Answer: E

QUESTION NO: 101

Which of the following commands changes the number of days before the ext3 filesystem on /dev/sda1 has to run through a full filesystem check while booting?

A. tune2fs -d 200 /dev/sda1
B. tune2fs -c 200 /dev/sda1
C. tune2fs -i 200 /dev/sda1
D. tune2fs -n 200 /dev/sda1
E. tune2fs --days 200 /dev/sda1

Answer: C

QUESTION NO: 102

Which type of filesystem is created by mkfs when it is executed with the block device name only and without any additional parameters?

A. ext2
B. ext3
C. ext4
D. XFS
E. VFAT

Answer: A

QUESTION NO: 103

How many fields are in a syntactically correct line of /etc/fstab?

A. 3
B. 4
C. 5
D. 6
E. 7

Answer: D

QUESTION NO: 104

Which command is used to create and initialize the files used to store quota information? (Specify ONLY the command without any path or parameters.)

Answer: quotacheck

QUESTION NO: 105

Which of the following file permissions belong to a symbolic link?

A. -rwxrwxrwx
B. +rwxrwxrwx
C. lrwxrwxrwx
D. srwxrwxrwx

Answer: C

QUESTION NO: 106

Creating a hard link to an ordinary file returns an error. What could be the reason for this?

A. The source file is hidden.
B. The source file is read-only.
C. The source file is a shell script.
D. The source file is already a hard link.
E. The source and the target are on different filesystems.

Answer: E

QUESTION NO: 107

Which of the following commands creates an ext3 filesystem on /dev/sdb1? (Choose TWO correct answers.)

A. /sbin/mke2fs -j /dev/sdb1
B. /sbin/mkfs -t ext3 /dev/sdb1
C. /sbin/mkfs -c ext3 /dev/sdb1
D. /sbin/mke3fs -j /dev/sdb1

Answer: A,B

QUESTION NO: 108

Which of the following commands will change the quota for a specific user?

A. edquota
B. repquota
C. quota -e
D. quota

Answer: A

QUESTION NO: 109

Which utility would be used 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

Answer: C

QUESTION NO: 110

Which of the following Linux filesystems preallocates a fixed number of inodes at the filesystem's make/creation time and does NOT generate them as needed? (Choose TWO correct answers.)

A. ext3
B. JFS
C. ext2
D. XFS
E. procfs

Answer: A,C

QUESTION NO: 111

What is the purpose of the Filesystem Hierarchy Standard?

A. It is a security model used to ensure files are organized according to their permissions and accessibility.
B. It provides unified tools to create, maintain and manage multiple filesystems in a common way.
C. It defines a common internal structure of inodes for all compliant filesystems.
D. It is a distribution neutral description of locations of files and directories.

Answer: D

QUESTION NO: 112

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

Answer: 0077, 077

QUESTION NO: 113

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

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

Answer: C,E

QUESTION NO: 114

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?

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. Another file system still contains a symlink to a file inside /mnt.
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.

Answer: B

QUESTION NO: 115

What does the command mount -a do?

A. It mounts all available filesystems onto the current directory.
B. It shows all mounted filesystems.
C. It mounts all user mountable filesystems for the current user.
D. It mounts all filesystems listed in /etc/fstab which have the option auto set.
E. It mounts all filesystems listed in /etc/fstab which have the option noauto set.

Answer: D

QUESTION NO: 116

Which of the following commands set the sticky bit for the directory /tmp? (Choose TWO correct answers.)

A. chmod +s /tmp
B. chmod +t /tmp
C. chmod 1775 /tmp
D. chmod 4775 /tmp
E. chmod 2775 /tmp

Answer: B,C

QUESTION NO: 117

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

A. inode
B. ls
C. ln
D. cp

Answer: B

QUESTION NO: 118

Which of the following commands shows the definition of a given shell command?

A. where
B. stat
C. type
D. case

Answer: C

QUESTION NO: 119

What do the permissions -rwSr-xr-x mean for a binary file when it is executed as a command?

A. The command is SetUID and it will be executed with the effective rights of the owner.
B. The command will be executed with the effective rights of the group instead of the owner.
C. The execute flag is not set for the owner. Therefore the SetUID flag is ignored.
D. The command will be executed with the effective rights of the owner and group.

Answer: C

QUESTION NO: 120

Which of the following pieces of information of an existing file is changed when a hard link pointing to that file is created?

A. File size
B. Modify timestamp
C. Link count
D. Inode number
E. Permissions

Answer: C

QUESTION NO: 1

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

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

Answer: B,C,E

QUESTION NO: 2

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

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

Answer: A

QUESTION NO: 3

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

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

Answer: C

QUESTION NO: 4

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)

Answer: B

QUESTION NO: 5

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

A. LD_LOAD_PATH
B. LD_LIB_PATH
C. LD_LIBRARY_PATH
D. LD_SHARE_PATH
E. LD_RUN_PATH

Answer: C

QUESTION NO: 6

An administrator has just added a CD-ROM drive (/dev/hdd) to a system and added it to the administrator's fstab. Typically the administrator 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}

Answer: D

QUESTION NO: 7

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

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

Answer: C

QUESTION NO: 8

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

Answer: killall -s SIGUSR1 apache2, killall -s USR1 apache2,killall -SIGUSR1 apache2,killall - USR1 apache2

QUESTION NO: 9

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

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

Answer: A

QUESTION NO: 10

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

Answer: B

QUESTION NO: 11

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

Answer: /etc/inittab

QUESTION NO: 12

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

Answer: A

QUESTION NO: 13

The lspci command can display information about devices EXCEPT:

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

Answer: E

QUESTION NO: 14

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

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

Answer: C

QUESTION NO: 15

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

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

Answer: B

QUESTION NO: 16

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

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

QUESTION NO: 17

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

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

Answer: D

QUESTION NO: 18

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

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

Answer: D

QUESTION NO: 19

Which of the following Linux filesystems pre-allocates a fixed number of inodes at filesystems

make/creation time, and does NOT generate them as needed?

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

Answer: A

QUESTION NO: 20

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?

Answer: %1,fg
fg is a job control command in Unix and Unix-like operating systems that resumes execution of a suspended process by bringing it to the foreground and thus redirecting its standard input and output streams to the user's terminal.

QUESTION NO: 21

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

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

Answer: A

QUESTION NO: 22

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

Answer: /bin/dmesg,dmesg

QUESTION NO: 23

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

Answer: /var/log/kern.log,/var/log/messages,kern.log,messages

QUESTION NO: 24

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

Answer: /proc/cmdline,cmdline

QUESTION NO: 25

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

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

Answer: A

QUESTION NO: 26

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

Answer: /usr/bin/hexdump,/usr/bin/od,hexdump,od

QUESTION NO: 27

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

Answer: update

QUESTION NO: 28

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

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

Answer: B

QUESTION NO: 29

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

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

QUESTION NO: 30

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

A. 037
B. 640

C. 038
D. 027

Answer: D

QUESTION NO: 31

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

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

Answer: A,D

QUESTION NO: 32

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

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

Answer: B

QUESTION NO: 33

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

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

Answer: D

QUESTION NO: 34

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

A. The contents of the file foobar
B. Hello
C. No output but a file named foobar is created
D. Hello foobar
E. Hello foobar
foobar

Answer: D

QUESTION NO: 35

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

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

Answer: E

QUESTION NO: 36

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

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

Answer: C

QUESTION NO: 37

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

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

Answer: E

QUESTION NO: 38

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).

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

QUESTION NO: 39

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

recognize vi keystrokes after login?

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

Answer: D

QUESTION NO: 40

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

A. Software to predict the location of installed files and directories.
B. Software to predict the ownership and access rights to files and directories.
C. Users to predict the location of installed files and directories.
D. Users to predict how the filesystem should be formatted according to need.

Answer: A,C

QUESTION NO: 41

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

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

Answer: C

QUESTION NO: 42

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

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

Answer: C

QUESTION NO: 43

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

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

Answer: E

QUESTION NO: 44

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

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

Answer: B

QUESTION NO: 45

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

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

Answer: E

QUESTION NO: 46

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

Answer: reconfigure

QUESTION NO: 47

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

Answer: /sbin/quotaon,quotaon

QUESTION NO: 48

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

Answer: /bin/dd,dd

QUESTION NO: 49

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

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

Answer: C

QUESTION NO: 50

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

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

Answer: D

QUESTION NO: 51

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

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

Answer: B

QUESTION NO: 52

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

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

Answer: B

QUESTION NO: 53

Which of the following RPM commands 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 -qi /etc/exports

Answer: B

QUESTION NO: 54

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

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

Answer: A

QUESTION NO: 55

The /etc/_____ file lists currently mounted devices.

Answer: mtab

QUESTION NO: 56

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

Answer: B

QUESTION NO: 57

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.

Answer: /tmp,tmp

QUESTION NO: 58

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

Answer: +19,19

QUESTION NO: 59

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-x-r-x

Answer: C

QUESTION NO: 60

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

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

Answer: D

QUESTION NO: 61

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

Answer: /sbin/mkswap,mkswap

QUESTION NO: 62

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

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

Answer: B

QUESTION NO: 63

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

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

Answer: D

QUESTION NO: 64

Given the following output: prompt> myapp [1]+ Stopped myapp prompt> Which of the following commands will resume executing the stopped process while allowing the user to continue to type commands at the command prompt?

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

Answer: A

QUESTION NO: 65

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

A. mod2fs
B. fsck
C. tune2fs

D. mke2fs
E. fixe2fs

Answer: C

QUESTION NO: 66

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

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

Answer: A

QUESTION NO: 67

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

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

Answer: A

QUESTION NO: 68

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

Answer: bus

QUESTION NO: 69

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

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

Answer: C

QUESTION NO: 70

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

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

Answer: A

QUESTION NO: 71

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

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

Answer: B

QUESTION NO: 72

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

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

Answer: C

QUESTION NO: 73

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

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

Answer: A

QUESTION NO: 74

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

Answer: +19,19

QUESTION NO: 75

An administrator has written a custom tool on their local system. Following the Filesystem

Hierarchy Standard (FHS), where should the administrator install the binaries to be available to all users on the administrator's system?

Answer: /usr/local/bin,/usr/local/bin/

QUESTION NO: 76

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

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

Answer: E

QUESTION NO: 77

An administrator wants to display all currently mounted file systems. Which command would be used? (Please enter only a single command without arguments or options).

Answer: /bin/df,/bin/mount,df,mount

QUESTION NO: 78

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

Answer: /bin/dmesg,dmesg

QUESTION NO: 79

In GRUB's configuration file an administrator finds the following line: root (hd1,4) Which of the

following is the corresponding device name on a Linux system?

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

Answer: D

QUESTION NO: 80

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

Answer: update

QUESTION NO: 81

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

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

Answer: D

QUESTION NO: 82

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).

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

QUESTION NO: 83

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).

Answer: 0077,077

QUESTION NO: 84

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

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

Answer: D

QUESTION NO: 85

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

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

Answer: C

QUESTION NO: 86

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

Answer: D

QUESTION NO: 87

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

Answer: 4,four

QUESTION NO: 88

Which program finds only files that are in an administrator's PATH?

Answer: /usr/bin/which,which

QUESTION NO: 89

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

A. Alt

B. Esc

C. Ctrl

D. Shift

Answer: B

QUESTION NO: 90

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

Answer: /sbin/swapoff,swapoff

QUESTION NO: 91

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

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

Answer: B

QUESTION NO: 92

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

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

Answer: A

QUESTION NO: 93

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

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

Answer: B

QUESTION NO: 94

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

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

Answer: D

QUESTION NO: 95

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

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

Answer: E

QUESTION NO: 96

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

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

Answer: B

QUESTION NO: 97

An administrator suspects that a new Ethernet card might be conflicting with another device. Which file should the administrator check within the /proc tree to learn which IRQs are being used by which kernel drivers? (Please enter only a single command and do not enter duplicate answers in this field.)

Answer: /proc/interrupts,interrupts

QUESTION NO: 98

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

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

Answer: A,C

QUESTION NO: 99

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

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

Answer: E

QUESTION NO: 100

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

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

Answer: A

QUESTION NO: 101

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

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

Answer: B

QUESTION NO: 102

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

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

Answer: D

QUESTION NO: 103

An administrator has read/write permissions on an ordinary file foo. The administrator has just run
ln foo bar. Which of the following would occur if the administrator 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. The administrator would be asked whether bar should be removed.

Answer: B

QUESTION NO: 104

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

Answer: /usr/bin/renice,renice

QUESTION NO: 105

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

Answer: D

QUESTION NO: 106

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

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

Answer: C

QUESTION NO: 107

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

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

Answer: D

QUESTION NO: 108

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

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

Answer: A

QUESTION NO: 109

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

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

Answer: E

QUESTION NO: 110

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

Answer: B

QUESTION NO: 111

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

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

E. dpkg -r pkgname

Answer: E

QUESTION NO: 112

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

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

Answer: E

QUESTION NO: 113

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

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

Answer: A

QUESTION NO: 114

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

Answer: /bin/dd,dd

QUESTION NO: 115

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

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

Answer: C

QUESTION NO: 116

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

Answer: A

QUESTION NO: 117

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

Answer: 17y,17y,17yy,17yy

QUESTION NO: 118

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

Answer: killall -s SIGUSR1 apache2, killall -s USR1 apache2,killall -SIGUSR1 apache2,killall -USR1 apache2

QUESTION NO: 119

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.

Answer: B