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File Version: 4.0

Exam Code: 101-500
Exam Name: LPIC-1 Exam 101



Exam A

QUESTION 1

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 subsequentcommand 4 times.

Correct Answer: B

Section:

QUESTION 2

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

Correct Answer: A

Section:

QUESTION 3

CORRECT TEXT

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

- A. HISTFILE

Correct Answer: A

Section:

QUESTION 4

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

Correct Answer: B

Section:



QUESTION 5

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`

Correct Answer: C

Section:

QUESTION 6

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`

Correct Answer: B

Section:

QUESTION 7

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

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

Correct Answer: D

Section:

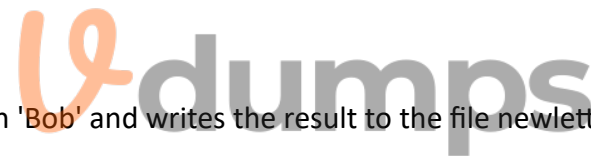
QUESTION 8

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`

Correct Answer: A, B

Section:

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QUESTION 9

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.

Correct Answer: B

Section:

QUESTION 10

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:

QUESTION 11

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.

Correct Answer: B, D

Section:

QUESTION 12

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

Correct Answer: A, D

Section:

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QUESTION 13

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"

Correct Answer: A, C

Section:

QUESTION 14

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

Correct Answer: B, C, E

Section:

QUESTION 15

FILL IN THE BLANK

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

- A. cmdline,/proc/cmdline

Correct Answer: A

Section:

QUESTION 16

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

Correct Answer: A, B, D

Section:

QUESTION 17

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

Correct Answer: C, D

Section:

QUESTION 18

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

Correct Answer: B

Section:

QUESTION 19

CORRECT TEXT

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

- A. dmesg,
/bin/dmesg

Correct Answer: A

Section:

QUESTION 20

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:

QUESTION 21

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



- A. silent
- B. verbose=0
- C. nomsg
- D. quiet

Correct Answer: D

Section:

QUESTION 22

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

Correct Answer: E

Section:

QUESTION 23

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:

QUESTION 24

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:

QUESTION 25

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

- A. 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:

QUESTION 26

CORRECT TEXT

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?

- A. interrupts,
/proc/interrupts

Correct Answer: A

Section:

QUESTION 27

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:

QUESTION 28

CORRECT TEXT

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

- A. bus

Correct Answer: A

Section:

QUESTION 29

CORRECT TEXT

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)

- A. dmesg,
/bin/dmesg

Correct Answer: A

Section:

QUESTION 30

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

Correct Answer: D

Section:

QUESTION 31

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

Correct Answer: A

Section:

QUESTION 32

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

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

Correct Answer: C

Section:

QUESTION 33

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

Correct Answer: C

Section:



QUESTION 34

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.

Correct Answer: B, D, E

Section:

QUESTION 35

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

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

Correct Answer: E

Section:

QUESTION 36

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

Correct Answer: C

Section:

QUESTION 37

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

Correct Answer: B

Section:

QUESTION 38

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

Correct Answer: A, B, D

Section:

QUESTION 39

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.

Correct Answer: A

Section:

QUESTION 40

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

Correct Answer: D

Section:

QUESTION 41

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

Correct Answer: C

Section:

QUESTION 42

CORRECT TEXT



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.)

- A. /tmp, tmp,/var/tmp,
/tmp/, /var/tmp/

Correct Answer: A

Section:

QUESTION 43

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

Correct Answer: B

Section:

QUESTION 44

CORRECT TEXT

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

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

Correct Answer:

Section:

Explanation:

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

QUESTION 45

CORRECT TEXT

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

- A. menu.lst, grub.conf, grub.cfg

Correct Answer: A

Section:

QUESTION 46

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

Correct Answer: C

Section:

QUESTION 47

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:

QUESTION 48

CORRECT TEXT

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

- A. update, upgrade

Correct Answer: A

Section:

QUESTION 49

CORRECT TEXT

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

- A. swapoff,
/sbin/swapoff

Correct Answer: A

Section:

QUESTION 50

CORRECT TEXT

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.)

- A. dpkgreconfigure

Correct Answer: A

Section:



QUESTION 51

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

Correct Answer: C

Section:

QUESTION 52

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:

QUESTION 53

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:

QUESTION 54

CORRECT TEXT

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

- A. /tmp, tmp

Correct Answer: A

Section:

QUESTION 55

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

Correct Answer: B

Section:

QUESTION 56

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

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

Correct Answer: C

Section:

QUESTION 57

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

Correct Answer: D

Section:

QUESTION 58

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

Correct Answer: B

Section:

QUESTION 59

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.

Correct Answer: B

Section:

QUESTION 60

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

Correct Answer: D

Section:

QUESTION 61

CORRECT TEXT

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

- A. HUP,
SIGHUP, 1

Correct Answer: A

Section:

QUESTION 62

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

Correct Answer: B

Section:

QUESTION 63

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

- A. run
- B. bg

- C. fg
- D. back

Correct Answer: B

Section:

QUESTION 64

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.

Correct Answer: B

Section:

QUESTION 65

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.

Correct Answer: C

Section:

QUESTION 66

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

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

Correct Answer: B

Section:

QUESTION 67

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:

QUESTION 68

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

Correct Answer: A, D

Section:

QUESTION 69

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



Correct Answer: C

Section:

QUESTION 70

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

Correct Answer: E

Section:

QUESTION 71

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. #

Correct Answer: C

Section:

QUESTION 72

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

Correct Answer: D

Section:

QUESTION 73

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

Correct Answer: C

Section:

QUESTION 74

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

Correct Answer: B

Section:

QUESTION 75

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.



Correct Answer: D

Section:

QUESTION 76

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"

Correct Answer: D

Section:

QUESTION 77

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

- A. BASHEXEC
- B. BASHRC
- C. PATH
- D. EXECPATH
- E. PATHRC

Correct Answer: C

Section:



QUESTION 78

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

Correct Answer: C

Section:

QUESTION 79

CORRECT TEXT

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

- A. mkdir,
/usr/bin/mkdir

Correct Answer: A

Section:

QUESTION 80

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

Correct Answer: C, D

Section:

QUESTION 81

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.

Correct Answer: C

Section:

QUESTION 82

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

Correct Answer: B

Section:

QUESTION 83

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

Correct Answer: A, C

Section:



QUESTION 84

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

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

Correct Answer: A, B, C

Section:

QUESTION 85

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

- A. The command does not need to execute immediately.
- B. The command has to run immediately but the user needs to log out.
- C. The system is being shut down and the command needs to restart execution immediately after the reboot.
- D.

Correct Answer: B

Section:

Explanation:

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

Answer: B

Explanation:

**QUESTION 86**

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:

QUESTION 87

What does the command `mount --bind` do?

- A. It makes the contents of one directory available in another directory
- B. It mounts all available filesystems to the current directory
- C. It mounts all user mountable filesystems to the user's home directory

- D. It mounts all file systems listed in /etc/fstab which have the option userbind set
- E. It permanently mounts a regular file to a directory

Correct Answer: A

Section:

QUESTION 88

Consider the following output from the command ls -l:

```
525385 -rw-rw-r-- 2 1000 1000 0 Feb 12 19:44 a.txt 525385 -rw-rw-r-- 2 1000 1000 0 Feb 12 19:44 a.txt
526255 lrwxrwxrwx 1 1000 1000 5 Feb 12 19:44 b.txt -> a.txt 526255 lrwxrwxrwx 1 1000 1000 5 Feb 12 19:44 b.txt -> a.txt
```

How would a new file named c.txt be created with the same inode number as a.txt (Inode 525385)?

- A. ln -h a.txt c.txt
- B. ln c.txt a.txt
- C. ln a.txt c.txt
- D. ln -f c.txt a.txt
- E. ln -i 525385 c.txt

Correct Answer: C

Section:

QUESTION 89

Consider the following directory: drwxrwxr-x 2 root sales 4096 Jan 1 15:21 sales Which command ensures new files created within the directory sales are owned by the group sales? (Choose two.)

- A. chmod g+s sales
- B. setpol -R newgroup=sales sales
- C. chgrp -p sales sales
- D. chown --persistent *.sales sales
- E. chmod 2775 sales

Correct Answer: C, E

Section:

QUESTION 90

CORRECT TEXT

Which command displays the current disk space usage for all mounted file systems? (Specify ONLY the command without any path or parameters.)

- A. du

Correct Answer: A

Section:

QUESTION 91

When considering the use of hard links, what are valid reasons not to use hard links?

- A. Hard links are not available on all Linux systems because traditional filesystems, such as ext4, do not support them

- B. Each hard link has individual ownership, permissions and ACLs which can lead to unintended disclosure of file content
- C. Hard links are specific to one filesystem and cannot point to files on another filesystem
- D. If users other than root should be able to create hard links, suLn has to be installed and configured
- E. When a hard linked file is changed, a copy of the file is created and consumes additional space

Correct Answer: A

Section:

QUESTION 92

Which daemon handles power management events on a Linux system?

- A. acpid
- B. batteryd
- C. pwrmgntd
- D. psd
- E. inetd

Correct Answer: A

Section:

QUESTION 93

Which of the following statements are true about the boot sequence of a PC using a BIOS? (Choose two.)

- A. Some parts of the boot process can be configured from the BIOS
- B. Linux does not require the assistance of the BIOS to boot a computer
- C. The BIOS boot process starts only if secondary storage, such as the hard disk, is functional
- D. The BIOS initiates the boot process after turning the computer on
- E. The BIOS is started by loading hardware drivers from secondary storage, such as the hard disk

Correct Answer: A, D

Section:

QUESTION 94

What is true regarding UEFI firmware? (Choose two.)

- A. It can read and interpret partition tables
- B. It can use and read certain file systems
- C. It stores its entire configuration on the /boot/ partition
- D. It is stored in a special area within the GPT metadata
- E. It is loaded from a fixed boot disk position

Correct Answer: B, D

Section:

QUESTION 95

A faulty kernel module is causing issues with a network interface card. Which of the following actions ensures that this module is not loaded automatically when the system boots?

- A. Using `lsmod --remove --autoclean` without specifying the name of a specific module
- B. Using `modinfo -k` followed by the name of the offending module
- C. Using `modprobe -r` followed by the name of the offending module
- D. Adding a blacklist line including the name of the offending module to the file `/etc/modprobe.d/blacklist.conf`
- E. Deleting the kernel module's directory from the file system and recompiling the kernel, including its modules

Correct Answer: D

Section:

QUESTION 96

When is the content of the kernel ring buffer reset? (Choose two.)

- A. When the ring buffer is explicitly reset using the command `dmesg --clear`
- B. When the ring buffer is read using `dmesg` without any additional parameters
- C. When a configurable amount of time, 15 minutes by default, has passed
- D. When the kernel loads a previously unloaded kernel module
- E. When the system is shut down or rebooted

Correct Answer: A, E

Section:

QUESTION 97

What is the first program the Linux kernel starts at boot time when using System V init?

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

Correct Answer: D

Section:

QUESTION 98

A Debian package creates several files during its installation. Which of the following commands searches for packages owning the file `/etc/debian_version`?

- A. `apt-get search /etc/debian_version`
- B. `apt -r /etc/debian_version`
- C. `find /etc/debian_version -dPKG`
- D. `dpkg -S /etc/debian_version`
- E. `apt-file /etc/debian_version`

Correct Answer: C

Section:



QUESTION 99

What is contained on the EFI System Partition?

- A. The Linux root file system
- B. The first stage boot loader
- C. The default swap space file
- D. The Linux default shell binaries
- E. The user home directories

Correct Answer: B

Section:

QUESTION 100

Which of the following directories on a 64 bit Linux system typically contain shared libraries? (Choose two.)

- A. ~/.lib64/
- B. /usr/lib64/
- C. /var/lib64/
- D. /lib64/
- E. /opt/lib64/

Correct Answer: A, D

Section:

QUESTION 101

Which of the following files exist in a standard GRUB 2 installation? (Choose two.)

- A. /boot/grub/stages/stage0
- B. /boot/grub/i386-pc/1vm.mod
- C. /boot/grub/fstab
- D. /boot/grub/grub.cfg
- E. /boot/grub/linux/vmlinuz

Correct Answer: B, D

Section:

QUESTION 102

Which of the following commands installs all packages with a name ending with the string foo?

- A. zypper get "*foo"
- B. zypper update "foo?"
- C. zypper force "foo*"
- D. zypper install "*foo"
- E. zypper add ".*foo"

Correct Answer: D



Section:

QUESTION 103

Which of the following properties of a Linux system should be changed when a virtual machine is cloned? (Choose two.)

- A. The partitioning scheme
- B. The file system
- C. The D-Bus Machine ID
- D. The permissions of /root/
- E. The SSH host keys

Correct Answer: D, E

Section:

QUESTION 104

Which of the following commands installs GRUB 2 into the master boot record on the third hard disk?

- A. `grub2 install /dev/sdc`
- B. `grub-mkrescue /dev/sdc`
- C. `grub-mbrinstall /dev/sdc`
- D. `grub-setup /dev/sdc`
- E. `grub-install /dev/sdc`

Correct Answer: E

Section:



QUESTION 105

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. `cut -d : -f 1,4 /etc/passwd`
- C. `sort -t : -k 1,4 /etc/passwd`
- D. `paste -f 1,4 /etc/passwd`
- E. `split -c 1,4 /etc/passwd`

Correct Answer: B

Section:

QUESTION 106

Which of the following regular expressions represents a single upper-case letter?

- A. `:UPPER:`
- B. `[A-Z]`
- C. `!a-z`
- D. `%C`

E. {AZ}

Correct Answer: B

Section:

QUESTION 107

Given a log file loga.log with timestamps of the format DD/MM/YYYY:hh:mm:ss, which command filters out all log entries in the time period between 8:00 am and 8:59 am?

- A. `grep -E ':08:[09]+:[09]+' loga.log`
- B. `grep -E ':08:[00]+' loga.log`
- C. `grep -E loga.log ':08:[0-9]+:[0-9]+'`
- D. `grep loga.log ':08:[0-9]:[0-9]'`
- E. `grep -E ':08:[0-9]+:[0-9]+' loga.log`

Correct Answer: E

Section:

QUESTION 108

What is true regarding the configuration of yum? (Choose two.)

- A. Changes to the repository configuration become active after running `yum confupdate`
- B. Changes to the yum configuration become active after restarting the yum service
- C. The configuration of package repositories can be divided into multiple files
- D. Repository configurations can include variables such as `$basearch` or `$releasever`
- E. In case `/etc/yum.repos.d/` contains files, `/etc/yum.conf` is ignored



Correct Answer: D, E

Section:

QUESTION 109

Which of the following apt-get subcommands installs the newest versions of all currently installed packages?

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

Correct Answer: E

Section:

QUESTION 110

Which command uninstalls a package but keeps its configuration files in case the package is reinstalled?

- A. `dpkg -s pkgname`
- B. `dpkg -L pkgname`
- C. `dpkg -P pkgname`

- D. `dpkg -v pkgname`
- E. `dpkg -r pkgname`

Correct Answer: E

Section:

QUESTION 111

Which of the following commands lists the dependencies of the RPM package file `foo.rpm`?

- A. `rpm -qpR foo.rpm`
- B. `rpm -dep foo`
- C. `rpm -ld foo.rpm`
- D. `rpm -R foo.rpm`
- E. `rpm -pD foo`

Correct Answer: A

Section:

QUESTION 112

Which of the following commands list all files and directories within the `/tmp/` directory and its subdirectories which are owned by the user `root`? (Choose two.)

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

Correct Answer: A, E

Section:

QUESTION 113

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

- A. `<`
- B. `#>`
- C. `%>`
- D. `>>>`
- E. `2>&1`

Correct Answer: A, E

Section:

QUESTION 114

Which of the following vi commands deletes two lines, the current and the following line?

- A. `d2`
- B. `2d`



- C. 2dd
- D. dd2
- E. de12

Correct Answer: C

Section:

QUESTION 115

The command `dbmaint &` was used to run `dbmaint` in the background. However, `dbmaint` is terminated after logging out of the system. Which alternative `dbmaint` invocation lets `dbmaint` continue to run even when the user running the program logs out?

- A. `job -b dbmaint`
- B. `dbmaint &>/dev/pts/null`
- C. `nohup dbmaint &`
- D. `bg dbmaint`
- E. `wait dbmaint`

Correct Answer: D

Section:

QUESTION 116

CORRECT TEXT

Which program runs a command in specific intervals and refreshes the display of the program's output? (Specify ONLY the command without any path or parameters.)

- A. `watch`

Correct Answer: A

Section:

QUESTION 117

Which of the following commands changes all CR-LF line breaks in the text file `userlist.txt` to Linux standard LF line breaks and stores the result in `newlist.txt`?

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

Correct Answer: A

Section:

QUESTION 118

Given the following input stream: `txt1.txt atxt.txt txtB.txt` Which of the following regular expressions turns this input stream into the following output stream? `txt1.bak.txt atxt.bak.txt txtB.bak.txt`

- A. `s/^.txt/.bak/`
- B. `s/txt/bak.txt/`
- C. `s/txt$/bak.txt/`

- D. `s/^txt$/.bak^/`
- E. `s/[.txt]/.bak$1/`

Correct Answer: B

Section:

QUESTION 119

Which command must be entered before exiting vi to save the current file as filea.txt?

- A. `%s filea.txt`
- B. `%w filea.txt`
- C. `:save filea.txt`
- D. `:w filea.txt`
- E. `:s filea.txt`

Correct Answer: D

Section:

QUESTION 120

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)

Correct Answer: C

Section:

QUESTION 121

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`

Correct Answer: E

Section:

QUESTION 122

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

Correct Answer: A

Section:

QUESTION 123

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:

QUESTION 124

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.

Correct Answer: D

Section:

QUESTION 125

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

Correct Answer: C

Section:

QUESTION 126

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. &<

Correct Answer: A

Section:

QUESTION 127

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:

QUESTION 128

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

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

Correct Answer: B

Section:

QUESTION 129

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 morethan 5% of the size of the original file.

Correct Answer: B

Section:

QUESTION 130

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 modesautomatically.
- 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.

Correct Answer: B

Section:

QUESTION 131

CORRECT TEXT

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

- A. jobs

Correct Answer: A

Section:

QUESTION 132

Which of the following commands displays the output of the foo command on the screen and also writes it to a file called /tmp/foodata?

- A. foo | less /tmp/foodata
- B. foo | cp /tmp/foodata
- C. foo > /tmp/foodata
- D. foo | tee /tmp/foodata
- E. foo > stdout >> /tmp/foodata

Correct Answer: D

Section:

QUESTION 133

What output will be displayed when the user fred executes the following command? echo 'fred \$USER'

- A. fred fred
- B. fred /home/fred/
- C. 'fred \$USER'
- D. fred \$USER
- E. 'fred fred'

Correct Answer: A

Section:

