

QUESTION NO: 1

What is true regarding the statement beginning with `#!` that is found in the first line of a script?

- A. It prevents the script from being executed until the `!` is removed.
- B. It specifies the path and the arguments of the interpreter used to run the script.
- C. It is a comment that is ignored by the script.
- D. It specifies the character encoding of the script.

Answer: B

QUESTION NO: 2

Which Bash option prevents a user from accidentally overwriting a file with a `>`?

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

Answer: C

QUESTION NO: 3

Which of the following commands prints the exit value of the most recently executed program in Bash?

- A. `echo $?`
- B. `echo $#`
- C. `echo $exit`
- D. `echo $status`
- E. `echo $&`

Answer: A

QUESTION NO: 4 CORRECT TEXT

What word will complete an if statement in bash such as the following: if [-x "\$file"]; then echo \$file _____

(Please provide the missing word only)

Answer: fi

QUESTION NO: 5 CORRECT TEXT

What word is missing from the following SQL statement? update tablename _____ fieldname='value' where id=909;

(Please specify the missing word using lower_case letters only.)

Answer: set

QUESTION NO: 6

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

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

Answer: C

QUESTION NO: 7

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

- A. /etc/bashrc
- B. /etc/profile
- C. ~/.bash_profile
- D. /etc/.bashrc

Answer: B

QUESTION NO: 8

Which of the following commands are used to manage the environment and shell variables within a shell process? (Choose TWO correct answers.)

- A. export
- B. init
- C. reset
- D. set
- E. tset

Answer: A,D

QUESTION NO: 9

Which of the following are operators used for comparisons by the test command? (Choose TWO correct answers.)

- A. equals
- B. =
- C. -is
- D. -eq
- E. null

Answer: B,D

QUESTION NO: 10

Which of the following commands creates a function in Bash that outputs the sum of two

numbers?

- A. function sumitup { echo \$(((\$1 + \$2)) ; }
- B. command sumitup { echo \$(((\$1 + \$2)) ; }
- C. function sumitup { echo \$1 + \$2 ; }
- D. method sumitup { echo \$1 + \$2 ; }
- E. command sumitup { echo \$1 + \$2 ; }

Answer: A

QUESTION NO: 11

What output will the following command sequence produce?

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

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

Answer: A

QUESTION NO: 12

When the command `echo $?` outputs 1, which of the following statements are true?

- A. It is the process ID of the echo command.
- B. It is the process ID of the current shell.
- C. It is the exit value of the command executed immediately before echo.
- D. It is the exit value of the echo command.

Answer: C

QUESTION NO: 13 CORRECT TEXT

What word is missing from the following SQL statement? insert into tablename _____(909, 'text');

(Please specify the missing word using lower-case letters only.)

Answer: VALUES, values

QUESTION NO: 14

Which command makes the shell variable named VARIABLE visible to subshells?

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

Answer: B

QUESTION NO: 15

What output will the command seq 10 produce?

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

Answer: B

QUESTION NO: 16 CORRECT TEXT

By default, the contents of which directory will be copied to a new user's home directory when the account is created by passing the -m option to the useradd command? (Specify the full path to the directory.)

Answer: /etc/skel, /etc/skel/

QUESTION NO: 17 CORRECT TEXT

What word is missing from the following SQL statement?

_____ count(*) from tablename;

(Please specify the missing word using lower-case letters only.)

Answer: select

QUESTION NO: 18

Which of the following files, when existing, affect the behavior of the Bash shell? (Choose TWO correct answers.)

- A. ~/.bashconf
- B. ~/.bashrc
- C. ~/.bashdefaults
- D. ~/.bash_etc
- E. ~/.bash_profile

Answer: B,E

QUESTION NO: 19

After issuing:

```
function myfunction { echo $1 $2 ; }
```

in Bash, which output does:

```
myfunction A B C
```

Produce?

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

Answer: A

QUESTION NO: 20

Which of the following commands puts the output of the command date into the shell variable mydate?

- A. mydate="\$(date)"
- B. mydate="exec date"
- C. mydate="\$((date))"
- D. mydate="date"
- E. mydate="\${date}"

Answer: A

QUESTION NO: 21

What is the purpose of the sticky keys feature in X?

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

Answer: A

QUESTION NO: 22

On a machine running several X servers, how are the different instances of the X11 server identified?

- A. By a fixed UUID that is defined in the X11 configuration file.
- B. By a unique IPv6 address from the fe80::/64 subnet.
- C. By the name of the user that runs the X server like x11:bob.
- D. By a device name like /dev/X11/xservers/1.
- E. By a display name like:1.

Answer: E

QUESTION NO: 23

What is the purpose of the xhost program?

- A. Grant or revoke access to a X11 session.
- B. Install all packages and video drivers required to run X11 on a host.
- C. Start the X11 server and announce its availability within the local network.
- D. Send informational messages to all users logged into a host using X11.
- E. Display the MOTD and other important information when a user logs in via X11.

Answer: A

QUESTION NO: 24

What of the following statements is true regarding a display manager?

- A. A display manager handles remote X11 logins only and has no purpose on a system that is not attached to a network.
- B. The display manager is configured in the X11 configuration file xorg.conf.
- C. There is only one display manager X11DM that must be started on all systems running X11.
- D. After system startup, the display manager handles the login of a user.
- E. Without a display manager, no graphical programs can be run.

Answer: D

QUESTION NO: 25

How is a display manager started?

- A. It is started by a user using the command startx.
- B. It is started like any other system service by the init system.
- C. It is started by inetd when a remote hosts connects to the X11 port.
- D. It is started automatically when a X11 user logs in to the system console.

Answer: B

QUESTION NO: 26 CORRECT TEXT

What is the default name of the configuration file for the Xorg X11 server? (Specify the file name only without any path.)

Answer: xorg.conf

QUESTION NO: 27

Which of the following commands shows the current color depth of the X Server?

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

Answer: C

QUESTION NO: 28

For accessibility assistance, which of the following programs is an on-screen keyboard?

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

D. xOSK

Answer: C

QUESTION NO: 29 CORRECT TEXT

What is the name of the simple graphical login manager that comes with a vanilla X11 installation? (Specify ONLY the command without any path or parameters.)

Answer: xdm

QUESTION NO: 30

Which of the following are tasks handled by a display manager like XDM or KDM? (Choose TWO correct answers.)

- A. Start and prepare the desktop environment for the user.
- B. Configure additional devices like new monitors or projectors when they are attached.
- C. Handle the login of a user.
- D. Lock the screen when the user was inactive for a configurable amount of time.
- E. Create an X11 configuration file for the current graphic devices and monitors.

Answer: A,C

QUESTION NO: 31

Which of the following commands can modify or set the password expiration for a user? (Choose TWO correct answers.)

- A. chage
- B. chexpiration
- C. shadowconfig
- D. passwd
- E. userconf

Answer: A,D

QUESTION NO: 32

Which of the following statements is true regarding the `/etc/shadow` file?

- A. `/etc/shadow` may not be readable or writable by user root.
- B. Only root is allowed to read and write `/etc/shadow`.
- C. All users have full read and write access to `/etc/shadow`.
- D. All users have full read access to `/etc/shadow`.

Answer: B

QUESTION NO: 33

Which of the following commands will convert files from one character encoding to another?

- A. `convert`
- B. `enc2utf`
- C. `iconv`
- D. `transcode`

Answer: C

QUESTION NO: 34

Which environment variable will override all `LC_*` variables?

- A. `LANG`
- B. `LC_ALL`
- C. `LC_COLLATE`
- D. `LOCALE`

Answer: B

QUESTION NO: 35

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

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

Answer: B

QUESTION NO: 36

Which of the following actions prevents a specific user from scheduling tasks using at or batch?

- A. Add the specific user to the `/etc/at.allow` file.
- B. Add the specific user to the `[deny]` section in the `/etc/atd.conf` file.
- C. Add the specific user to the `/etc/at.deny` file.
- D. Add the specific user to the `nojobs` group.
- E. Run `atd --deny` followed by the name of the specific user.

Answer: C

QUESTION NO: 37

What is the main difference between the batch and at commands?

- A. The batch command will run multiple times. The at command will only run once.
- B. The commands of a batch job run sequentially one after another while the commands in at jobs may run in parallel.
- C. The at command reads commands from standard input. The batch command requires a command line argument.
- D. The at command e-mails results to the user. The batch command logs results to syslog.

Answer: B

QUESTION NO: 38

Why should a regular user edit his personal crontab by using the command crontab instead of just editing his crontab file manually?

- A.** Because user specific crontab entries are stored in a common database and must be extracted before editing.
- B.** Because crontab starts the cron daemon in case it is not running due to no other crontab entries existing.
- C.** Because user specific crontab entries are stored in a special directory which is maintained by the cron daemon and not writable for regular users.
- D.** Because crontab collects information about all users crontabs and recommends similar commands used by other users of the system.

Answer: C

QUESTION NO: 39

What is true about groups in a Linux system? (Choose TWO correct answers.)

- A.** Each user may be a member of several groups. However, only one group is the user's primary group.
- B.** Groups may have a password that allows users to join that group temporarily.
- C.** Each user can only be a member of one group at a time.
- D.** Group memberships are optional such that there may be users that do not belong to any group.
- E.** Groups can be nested meaning that one group can be a member of another group.

Answer: A,B

QUESTION NO: 40

What is true about UIDs and GIDs?

- A.** UIDs and GIDs share a common number space. Each time a new user or group is created, the

next free ID is assigned.

B. The first four digits of each UID are the GID of the primary group of that user.

C. The GID of a group is always the sum of the UIDs of its members.

D. The number space is split up. UIDs usually reside in the range from 0 to 32767 while GIDs reside in the range from 32768 to 65535.

E. There are distinct number spaces for UIDs and GIDs, i.e. the same number may be used as both a UID and a GID.

Answer: E

QUESTION NO: 41

What happens if the password of a user in the /etc/shadow file is prepended with the ! character?

A. When logging in, the user automatically gets root privileges in addition to his regular privileges.

B. The password is inverted which allows the user to log in with any password other than the current password.

C. The user is disabled and all login methods, including but not limited to password based logins, are disabled.

D. Upon the next log in, the user is forced to change his password.

E. The password becomes invalid which disables password based logins although other login methods remain usable.

Answer: E

QUESTION NO: 42

Which of the following details can be found in an entry of a user specific crontab? (Choose TWO correct answers.)

A. The verbal description of the job.

B. The syslog facility to where the output of the job should be sent.

C. The time when the cron job should run.

D. The command that should be started by the cron job.

E. The name of the user which should run the job.

Answer: C,D

QUESTION NO: 43

Each entry in a crontab must end with what character?

- A. Tab
- B. Space
- C. Backslash
- D. Newline

Answer: D

QUESTION NO: 44

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

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

Answer: C

QUESTION NO: 45

Which of the following crontab entries will execute myscript at 30 minutes past every hour on Sundays?

- A. 0 * * * 30 myscript
- B. 30 * * * 6 myscript
- C. 30 0 * * 0 myscript
- D. 30 0-23 * * 0 myscript
- E. 0 0-23 * * 30 myscript

Answer: D

QUESTION NO: 46

Which of the following files assigns a user to its primary group?

- A. /etc/pgroup
- B. /etc/shadow
- C. /etc/group
- D. /etc/passwd
- E. /etc/gshadow

Answer: D

QUESTION NO: 47

Which of the following commands should be added to /etc/bash_profile in order to change the language of messages for an internationalized program to Portuguese (pt)?

- A. export LANGUAGE="pt"
- B. export MESSAGE="pt"
- C. export UI_MESSAGES="pt"
- D. export LC_MESSAGES="pt"
- E. export ALL_MESSAGES="pt"

Answer: D

QUESTION NO: 48 CORRECT TEXT

In which file, if present, must all users be listed that are allowed to use the cron scheduling system? (Specify the full name of the file, including path.)

Answer: /etc/cron.allow

QUESTION NO: 49

Which commands can be used to change a user's account aging information? (Choose THREE correct answers.)

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

Answer: A,B,D

QUESTION NO: 50 CORRECT TEXT

Which command is used to add an empty group to the system? (Specify ONLY the command without any path or parameters.)

Answer: groupadd, /usr/sbin/groupadd

QUESTION NO: 51

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

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

Answer: C

QUESTION NO: 52

What is true about the file /etc/localtime?

- A. It is a plain text file containing a string such as Europe/Berlin.
- B. It is created and maintained by the NTP service based on the geolocation of the system's IP address.
- C. It is a symlink to /sys/device/clock/lttime and always contains the current local time.

D. It is either a symlink to or a copy of a timezone information file such as /usr/share/zoneinfo/Europe/Berlin.

Answer: D

QUESTION NO: 53

What is true regarding the command `userdel --force --remove bob`? (Choose TWO correct answers.)

- A.** The user bob is removed from the system's user database.
- B.** The user bob's home directory is removed.
- C.** The locate database is updated to drop files owned by bob.
- D.** All files owned by bob are removed from all mounted filesystems.
- E.** In case bob was the last member of a group, that group is deleted.

Answer: A,B

QUESTION NO: 54

Which of the following fields can be found in the `/etc/group` file? (Choose THREE correct answers.)

- A.** The list of users that belong to the group.
- B.** The home directory of the group.
- C.** The name of the group.
- D.** The description of the group.
- E.** The password of the group.

Answer: A,C,E

QUESTION NO: 55

Which file, when using Sendmail or a compatible MTA system, will allow a user to redirect all of

their mail to another address and is configurable by the user themselves?

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

Answer: D

QUESTION NO: 56

Which of the following commands pauses the CUPS printer LaserPrinter?

- A. cupsreject LaserPrinter
- B. cupsreject -d LaserPrinter
- C. cupsdisable -d LaserPrinter
- D. cupsdisable LaserPrinter

Answer: D

QUESTION NO: 57

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

- A. Postfix
- B. Procmail
- C. Sendmail
- D. Exim
- E. SMTPd

Answer: A,C,D

QUESTION NO: 58

Which of the following commands lists all queued print jobs?

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

Answer: D

QUESTION NO: 59

What is NTP?

- A. A more secure protocol replacement for FTP.
- B. A protocol for synchronizing time on computers.
- C. A routing aid for finding next hops on a network.
- D. A simple tunnelling protocol for computers behind firewalls.

Answer: B

QUESTION NO: 60

What is true regarding the time in a Linux system?

- A. The BIOS clock of a computer always indicates the current local time and time zone.
- B. Each application must convert the Unix time to the current time zone which is usually done by using standard libraries.
- C. When the system is on the network, each query for the current time leads to a new network connection to a time server.
- D. When the system time changes, running processes must be restarted in order to get the correct time.

Answer: B

QUESTION NO: 61

Which of the following is true regarding the mail queue of a mail server? (Choose TWO correct answers.)

- A. The messages in the queue must be readable by all users as the queue may contain messages for several users.
- B. According to the Filesystem Hierarchy Standard (FHS) the queue is located at /var/mail/spool.
- C. There is exactly one mail queue per user which holds all new messages for that user before they are moved to other folders by the user's mail client.
- D. The queue holds all messages that are processed by the mail server but have not yet been completely delivered.
- E. The content of the mail queue can be queried by the command mailq.

Answer: D,E

QUESTION NO: 62

Why should an NTP client maintain connections to several NTP servers?

- A. To receive NTP information every second as each server transmits NTP pings every five seconds only.
- B. To improve the precision of the time by comparing responses from several servers.
- C. To not overload the remote server in case the local NTP time cache is not enabled.
- D. To not lose contact with all NTP servers in case the client changes networks.

Answer: B

QUESTION NO: 63

With syslog, what is a facility?

- A. Facilities are different connection interfaces to syslog. Each facility has its own device in /dev/syslog/.
- B. From syslog's point of view, each Unix process that issues messages is a facility.
- C. Facilities describe the severity of a log message such as emerg or info.
- D. When using remote logging, the hostname of the server that generated a message is called facility.
- E. Facilities describe categories or groups of messages such as mail or auth.

Answer: E

QUESTION NO: 64

Which of the following files holds the configuration for journald when running systemd?

- A. /etc/systemd/journalctl.conf
- B. /etc/systemd/journald.conf
- C. /etc/systemd/systemd-journald.conf
- D. /etc/systemd/systemd-journalctl.conf
- E. /usr/lib/systemd/journalctl.conf

Answer: B

QUESTION NO: 65

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

- A. Postfix
- B. Procmail
- C. Sendmail
- D. Exim
- E. SMTPd

Answer: A,C,D

QUESTION NO: 66

Which of the following is observed and corrected by a NTP client?

- A. The skew in time between the system clock and the hardware clock.
- B. The skew in time between the system clock and the reference clock.
- C. Changes in the time zone of the current computer's location.
- D. Adjustments needed to support Daylight Saving Time.

Answer: B

QUESTION NO: 67 CORRECT TEXT

Which command is used to sync the hardware clock to the system clock? (Specify ONLY the command without any path or parameters.)

Answer: hwclock, /sbin/hwclock, /usr/sbin/hwclock

QUESTION NO: 68 CORRECT TEXT

Which command, available with all MTAs, is used to list the contents of the MTA's mail queue? (Specify ONLY the command without any path or parameters.)

Answer: mailq, /usr/bin/mailq, sendmail -bp, /usr/sbin/sendmail -bp, /usr/lib/sendmail -bp, sendmail, /usr/sbin/sendmail, /usr/lib/sendmail

QUESTION NO: 69 CORRECT TEXT

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

Answer: /etc/cups, /etc/cups/

QUESTION NO: 70

Which of the following is a legacy program provided by CUPS for sending files to the printer queues on the command line?

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

Answer: D

QUESTION NO: 71

What entry can be added to the syslog.conf file to have all syslog messages generated by a system displayed on console 12?

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

Answer: A

QUESTION NO: 72

What is true about the ntpdate command?

- A. It is the primary management command for the NTP time server.
- B. It updates the local system's date (i.e. day, month and year) but not the time (i.e. hours, minutes, seconds).
- C. It queries one or more NTP time servers and adjusts the system time accordingly.
- D. It sends the local system time to one or many remote NTP time servers for redistribution.
- E. It can be used by any user to set the user clock independently of the system clock.

Answer: C

QUESTION NO: 73

What is true regarding the file ~/.forward?

- A. As it is owned by the MTA and not writable by the user, it must be edited using the editaliases command.
- B. After editing ~/.forward the user must run newaliases to make the mail server aware of the changes.
- C. Using ~/.forward, root may configure any email address whereas all other users may configure only their own addresses.

D. When configured correctly, ~/.forward can be used to forward each incoming mail to more than one other recipient.

Answer: D

QUESTION NO: 74

Which of the following commands is used to rotate, compress, and mail system logs?

- A. rotatelog
- B. striplog
- C. syslogd --rotate
- D. logrotate
- E. logger

Answer: D

QUESTION NO: 75

How many bits make up an IPv6 address?

- A. 32
- B. 48
- C. 64
- D. 128
- E. 256

Answer: D

QUESTION NO: 76 CORRECT TEXT

Which command is used to manually assign an IP address to a network interface? (Specify ONLY the command without any path or parameters.)

Answer: ifconfig, /sbin/ifconfig, ip, /sbin/ip

QUESTION NO: 77

Which of the following files is consulted when programs like netstat try to match port numbers to names?

- A. /etc/networks
- B. /etc/portmapper
- C. /etc/protocols
- D. /etc/resolv.conf
- E. /etc/services

Answer: E

QUESTION NO: 78

Which of the following statements is valid in the file /etc/resolv.conf?

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

Answer: D

QUESTION NO: 79

Which of the following is a correct entry in the /etc/hosts file?

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

Answer: D

QUESTION NO: 80 CORRECT TEXT

What is the assigned port number for the HTTP service? (Specify the port number using digits.)

Answer: 80

QUESTION NO: 81

What is the purpose of the dig command?

- A. It can be used as a tool for querying DNS servers.
- B. It can be used for searching through indexed file content.
- C. It can be used to look for open ports on a system.
- D. It can be used to ping all known hosts on the current subnet.

Answer: A

QUESTION NO: 82 CORRECT TEXT

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

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

By default, which file will be queried first for hostname lookups? (Specify the full name of the file, including path.)

Answer: `/etc/hosts`

QUESTION NO: 83

When issuing the command `ifconfig eth0 192.168.1.20/24 up`, which of the following happens? (Choose TWO correct answers.)

- A. The address 192.168.1.20 is associated with the interface eth0.
- B. A network route to 192.168.1.0 with the netmask 255.255.255.0 pointing directly to eth0 is created.
- C. 192.168.1.1 is probed for router functionality and, in case of success, it is added to the list of default routers.
- D. The addresses from 192.168.1.20 to 192.168.1.24 are activated on the interface eth0.
- E. If eth0 was configured with a previous IP address, it is retained in addition to adding the new address.

Answer: A,B

QUESTION NO: 84 CORRECT TEXT

What is the name of the file that defines the sources (like DNS or local configuration files) and the order in which they are consulted when resolving hostnames? (Specify the full name of the file, including path.)

Answer: /etc/nsswitch.conf

QUESTION NO: 85

Given the following routing table

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
192.168.178.0	0.0.0.0	255.255.255.0	U	9	0	0	wlan0

Why does the command route add default gw 192.168.1.1 fail?

- A. Because there is no route to 192.168.1.1.
- B. Because only one route can exist at a time.
- C. Because there is already a default route.
- D. Because default routes can not be set manually.
- E. Because default routes must be set with ifconfig.

Answer: A

QUESTION NO: 86

In order to discover the link layer address of the device that owns a specific IPv4 or IPv6 address, which mechanism is used?

- A. Both IPv4 and IPv6 use ARP.
- B. Both IPv4 and IPv6 use Neighbor Discovery.
- C. IPv4 uses ARP while IPv6 uses Neighbor Discovery.
- D. IPv4 uses Neighbor Discovery while IPv6 uses ARP.
- E. Both IPv4 and IPv6 can use either ARP or Neighbor Discovery depending on the network.

Answer: C

QUESTION NO: 87

Which of the following are valid IPv4 network masks? (Choose TWO correct answers.)

- A. 255.255.0.0
- B. 255.255.255.65
- C. 255.255.0.255
- D. 0.0.0.1
- E. 255.255.255.248

Answer: A,E

QUESTION NO: 88

How does the ping command work by default?

- A. It sends a UDP packet to port 0 of the remote host and waits to receive a UDP error response in return.
- B. It sends an ARP request to a remote host and waits to receive an ARP response in return.
- C. It sends a TCP SYN packet to a remote host and waits to receive an TCP ACK response in return.
- D. It sends a broadcast packet to all hosts on the net and waits to receive, among others, a response from the target system.

E. It sends an ICMP Echo Request to a remote host and waits to receive an ICMP Echo Response in return.

Answer: E

QUESTION NO: 89 CORRECT TEXT

How many IP-addresses can be used for unique hosts inside the IPv4 subnet 192.168.2.128/28?
(Specify the number only without any additional information.)

Answer: 14

QUESTION NO: 90 CORRECT TEXT

What is the lowest numbered unprivileged TCP port? (Specify the number in digits only.)

Answer: 1024

QUESTION NO: 91

Which of the following statements is valid in the file /etc/nsswitch.conf?

- A.** multi on
- B.** 192.168.168.4 dns-server
- C.** hosts: files dns
- D.** include /etc/nsswitch.d/

Answer: C

QUESTION NO: 92 CORRECT TEXT

Which command, depending on its options, can display the open network connections, the routing tables, as well as network interface statistics. (Specify ONLY the command without any path or parameters.)

Answer: netstat, /bin/netstat, ss, /usr/bin/ss

QUESTION NO: 93 CORRECT TEXT

Which port is the default server port for the HTTPS protocol? (Specify the port number using digits.)

Answer: 443

QUESTION NO: 94

Which of the following IPv4 networks are reserved by IANA for private address assignment and private routing? (Choose THREE correct answers.)

- A. 127.0.0.0/8
- B. 10.0.0.0/8
- C. 169.255.0.0/16
- D. 172.16.0.0/12
- E. 192.168.0.0/16

Answer: B,D,E

QUESTION NO: 95

Which of the following tools used for DNS debugging, reports not only the response from the name server but also details about the query?

- A. dnsq
- B. dig
- C. hostname
- D. dnslookup
- E. zoneinfo

Answer: B

QUESTION NO: 96

What of the following can be done by the command `ifconfig`? (Choose TWO correct answers.)

- A. Set a network interface active or inactive.
- B. Specify the kernel module to be used with a network interface.
- C. Allow regular users to change the network configuration of a network interface.
- D. Change the netmask used on a network interface.
- E. Specify which network services are available on a network interface.

Answer: A,D

QUESTION NO: 97

Which of the following programs can be used to determine the routing path to a given destination?

- A. `dig`
- B. `netstat`
- C. `ping`
- D. `route`
- E. `traceroute`

Answer: E

QUESTION NO: 98

Given the following routing table:

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
-------------	---------	---------	-------	--------	-----	-----	-------

0.0.0.0	192.168.178.1	0.0.0.0	UG	0	0	0	wlan0
---------	---------------	---------	----	---	---	---	-------

192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0
-------------	---------	---------------	---	---	---	---	------

192.168.2.0	192.168.1.1	255.255.255.0	U	0	0	0	eth0
-------------	-------------	---------------	---	---	---	---	------

192.168.178.0	0.0.0.0	255.255.255.0	U	9	0	0	wlan0
---------------	---------	---------------	---	---	---	---	-------

How would an outgoing packet to the destination 192.168.2.150 be handled?

- A. It would be passed to the default router 192.168.178.1 on wlan0.
- B. It would be directly transmitted on the device eth0.
- C. It would be passed to the default router 255.255.255.0 on eth0.
- D. It would be directly transmitted on the device wlan0.
- E. It would be passed to the router 192.168.1.1 on eth0.

Answer: E

QUESTION NO: 99

Which of the following is a valid IPv6 address?

- A. 2001:db8:3241::1
- B. 2001::db8:4581::1
- C. 2001:db8:0g41::1
- D. 2001%db8%9990%%1
- E. 2001.db8.819f..1

Answer: A

QUESTION NO: 100

Which of the following keywords can be used in the file /etc/resolv.conf? (Choose TWO correct answers.)

- A. substitute
- B. nameserver
- C. search
- D. lookup
- E. method

Answer: B,C

QUESTION NO: 101

On a regular users workstation the route command takes a long time before printing out the routing table. Which of the following errors does that indicate?

- A.** The local routing information may be corrupted and must be re-validated using a routing protocol.
- B.** One of the routers in the routing table is not available which causes the automatic router failure detection mechanism (ARF-D) to wait for a timeout.
- C.** There may accidentally be more than one default router in which case a default router election has to be done on the network in order to choose one router as the default.
- D.** DNS resolution may not be working as route by default tries to resolve names of routers and destinations and may run into a timeout.

Answer: D

QUESTION NO: 102 CORRECT TEXT

Which keyword must be listed in the hosts option of the Name Service Switch configuration file in order to make host lookups consult the /etc/hosts file?

Answer: files

QUESTION NO: 103 CORRECT TEXT

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

Answer: bind, interface

QUESTION NO: 104 CORRECT TEXT

What argument to the -type option of find will match files that are symbolic links? (Specify only the argument and no other options or words.)

Answer: l

QUESTION NO: 105 CORRECT TEXT

With X11 forwarding in ssh, what environment variable is automatically set in the remote host shell that is not set when X11 forwarding is not enabled? (Specify only the environment variable without any additional commands or values.)

Answer: DISPLAY, \$DISPLAY

QUESTION NO: 106 CORRECT TEXT

The presence of what file will temporarily prevent all users except root from logging into the system? (Specify the full name of the file, including path.)

Answer: /etc/nologin

QUESTION NO: 107

Which configuration file would be edited to change the default options for outbound SSH sessions?

- A. /etc/ssh/sshd_config
- B. /etc/ssh/ssh
- C. /etc/ssh/client
- D. /etc/ssh/ssh_config
- E. /etc/ssh/ssh_client

Answer: D

QUESTION NO: 108

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

- A. tcpd
- B. inetd
- C. fingerd

- D. mountd
- E. xinetd

Answer: A

QUESTION NO: 109

Which command is used to set restrictions on the size of a core file that is created for a user when a program crashes?

- A. core
- B. edquota
- C. ulimit
- D. quota

Answer: C

QUESTION NO: 110

When trying to unmount a device it is reported as being busy. Which of the following commands could be used to determine which process is causing this?

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

Answer: B

QUESTION NO: 111

Which configuration file would be edited to change default options for the OpenSSH server?

- A. /etc/ssh/sshd_config

- B. /etc/ssh/ssh
- C. /etc/ssh/server
- D. /etc/ssh/ssh_config
- E. /etc/ssh/ssh_server

Answer: A

QUESTION NO: 112

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

- A. /etc/security.conf
- B. /etc/supasswd
- C. /etc/sudoers
- D. /etc/sudo.conf

Answer: C

QUESTION NO: 113

Which of the following commands can be used to associate open TCP ports with the processes that opened the ports?

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

Answer: E

QUESTION NO: 114 CORRECT TEXT

Instead of using specific host names or IP addresses, which string can be used in /etc/hosts.allow entries to cover any remote host no matter of its name or address? (Specify the relevant string

only without any additional options or arguments.)

Answer: ALL

QUESTION NO: 115

Which of the following resources can be directly limited for a given user using ulimit? (Choose THREE correct answers.)

- A. Maximum seconds of CPU time spent.
- B. Maximum number of open file descriptors.
- C. Maximum number of processes available.
- D. Maximum number of concurrent login sessions.
- E. Maximum seconds of login duration per session.

Answer: A,B,C

QUESTION NO: 116

Depending on the host's configuration, which of the following files can be used to turn on and off network services running on a host? (Choose TWO correct answers.)

- A. /etc/profile
- B. /etc/services
- C. /etc/inetd.conf
- D. /etc/xinetd.conf
- E. /etc/host.conf

Answer: C,D

QUESTION NO: 117

How do shadow passwords improve the password security in comparison to standard passwd passwords?

- A. Shadow passwords are stored in plain text and can be checked for weak passwords.
- B. Every shadow password is valid for 45 days and must be changed afterwards.

- C. The system's host key is used to strongly encrypt all shadow passwords.
- D. Shadow passwords are always combined with a public key that has to match the user's private key.
- E. Regular users do not have access to the password hashes of shadow passwords.

Answer: E

QUESTION NO: 118

What is true regarding public and private SSH keys? (Choose TWO correct answers.)

- A. Several different public keys may be generated for the same private key.
- B. The private key must never be revealed to anyone.
- C. For each user account, there is exactly one key pair that can be used to log into that account.
- D. To maintain the private key's confidentiality, the SSH key pair must be created by its owner.
- E. To allow remote logins, the user's private key must be copied to the remote server.

Answer: B,D

QUESTION NO: 119 CORRECT TEXT

Which command is used to add OpenSSH private keys to a running ssh-agent instance? (Specify the file name only without any path.)

Answer: ssh-add, /usr/bin/ssh-add

QUESTION NO: 120

Which of the following commands gets the GnuPG public key with the id 63B4835B from the keyserver example.com?

- A. gpg --keyserver hkp://example.com --recv-key 63B4835B
- B. gpg --search-key hkp://63B4835B@example.com
- C. gpg --keyserver gpg://example.com --get-key 63B4835B
- D. gpg --keyserver hkp://example.com --add-key 63B4835B
- E. gpg --keyserver gpg://example.com --key 63B4835B

Answer: A

QUESTION NO: 1

The legacy program for sending files to the printer queues from the command line is which of the following?

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

Answer: B

QUESTION NO: 2

Which of the following statements would create a default route using a gateway of 192.168.1.1?

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

Answer: D

QUESTION NO: 3

Which of the following is the purpose of the dig command?

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

Answer: D

QUESTION NO: 4

Which of the following configuration files does sudo read when determining if a user is permitted to run applications with root privileges?

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

Answer: C

QUESTION NO: 5

Which of the following commands will set the local machine's timezone to UTC?

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

Answer: B

QUESTION NO: 6 CORRECT TEXT

A user was not given permission to use the CRON scheduling system. What file needs to be modified to provide that access? (Please specify the full path to the file).

Answer: /ETC/CRON.ALLOW

QUESTION NO: 7

Which of the following commands should be added to /etc/bash_profile to change the language of messages from an internationalised program to Portuguese (pt)? (Select TWO).

- B. export MESSAGE="pt"
- C. export LANG="pt"
- D. export LC_MESSAGES="pt"
- E. export ALL_MESSAGES="pt"

Answer: C,D

QUESTION NO: 8

Which of the following is pool.ntp.org?

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

Answer: C

QUESTION NO: 9

Which of the following directories in a user's home contains configuration files and key rings for GPG?

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

Answer: C

QUESTION NO: 10

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

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

Answer: C

QUESTION NO: 11

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

- A. pwconv command
- B. pwunconv command
- C. useradd command
- D. passwd command

Answer: C

QUESTION NO: 12

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

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

Answer: C

QUESTION NO: 13

Which of the following configuration files would an administrator edit to change default options for outbound ssh sessions?

- B. /etc/ssh/ssh
- C. /etc/ssh/client
- D. /etc/ssh/ssh_config
- E. /etc/ssh/ssh_client

Answer: D

QUESTION NO: 14

Which of the following bash option will prevent an administrator from overwriting a file with a ">"?

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

Answer: C

QUESTION NO: 15 CORRECT TEXT

An ISP has given an administrator an IP block for use. The block is 192.168.112.64/26. If the administrator uses the first usable IP for the router that is installed on the network, how many usable IPs are left? (Please enter the number and not a word)

Answer: 61

QUESTION NO: 16

All of the following are Mail Transport Agents EXCEPT:

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

Answer: E

QUESTION NO: 17 CORRECT TEXT

An administrator is configuring a secured webserver, however connecting to https://127.0.0.1 is not working. The administrator runs netstat -ntl, which returns the following output: tcp 0 0 0.0.0.0:80 0.0.0.0:* LISTEN What port should be listening before a successful connection is possible? (Provide only the numerical value of the port).

Answer: 443

QUESTION NO: 18 CORRECT TEXT

Which protocol uses two (2) TCP/IP ports one of them being port 20 for data transfer? (Please do not enter duplicate answers in this field.)

Answer: FTP, FTP

QUESTION NO: 19 CORRECT TEXT

An administrator can run the _____ command to see active network and UNIX domain socket connections. (Please specify the command with no options or parameters).

Answer: /BIN/NETSTAT, NETSTAT

QUESTION NO: 20 CORRECT TEXT

An administrator needs to sync the hardware clock, which is on GMT, with the system clock, which the administrator just updated with NTP. To do this, complete the following command. _____ - u --systohc

Answer: /SBIN/HWCLOCK, /USR/SBIN/HWCLOCK, HWCLOCK

QUESTION NO: 21

Which of the following programs uses the hosts.allow file to perform its main task of checking for

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

Answer: A

QUESTION NO: 22 CORRECT TEXT

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

ca:12345:_____:bin/echo "Rebooting disabled" Please provide the missing string.

Answer: CTRLALTDDEL

QUESTION NO: 23 CORRECT TEXT

What word will complete an if statement in bash such as the following: if [-x "\$file"]; then echo \$file _____ (Please provide the missing word only).

Answer: FI

QUESTION NO: 24 CORRECT TEXT

An administrator decides to use xinetd instead of inetd. Now, the administrator needs to transfer information from /etc/inetd.conf to another file. What file must be created or edited? (Please specify the full path).

Answer: /ETC/XINETD.CONF

QUESTION NO: 25

In the following command and its output, echo \$\$ 12942 which of the following is 12942?

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

Answer: B

QUESTION NO: 26

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

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

Answer: A

QUESTION NO: 27

Which of the following statements about crontab are true? (Select TWO).

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

Answer: A,C

QUESTION NO: 28 CORRECT TEXT

An administrator wants to determine the geometry of a particular window in X, so the administrator issues the _____ -metric command and then clicks on the window. (Please enter only a

Answer: /USR/BIN/XWININFO, XWININFO

QUESTION NO: 29 CORRECT TEXT

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

Answer: /USR/BIN/MAILQ, MAILQ

QUESTION NO: 30 CORRECT TEXT

To slave the NTP daemon to an external source, an administrator needs to modify the _____ variable in the /etc/ntp.conf file.

Answer: SERVER

QUESTION NO: 31

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

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

Answer: A

QUESTION NO: 32

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

- A. localhost 127.0.0.1 localhost.localdomain
- B. localhost.localdomainlocalhost 127.0.0.1
- C. localhostlocalhost.localdomain 127.0.0.1
- D. 127.0.0.1 localhost.localdomainlocalhost

Answer: D

QUESTION NO: 33

Which of the following lines would an administrator find in the file `/etc/resolv.conf`?

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

Answer: D

QUESTION NO: 34

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

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

Answer: A

QUESTION NO: 35

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

- A. `loconfig`
- B. `getlocale`
- C. `locale`

E. tzselect

Answer: C

QUESTION NO: 36

Which of the following should the permission settings be for /etc/passwd and /etc/shadow?

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

Answer: A

QUESTION NO: 37

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

- A. /etc/bashrc
- B. /etc/profile
- C. ~default/.bash_profile
- D. /etc/skel/.bashrc
- E. /etc/skel/.bash_profile

Answer: B

QUESTION NO: 38

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

- A. /ETC/SKEL, /ETC/SKEL/

Answer: A

QUESTION NO: 39

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

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

Answer: B

QUESTION NO: 40 CORRECT TEXT

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

Answer: /ETC/CUPS, /ETC/CUPS/

QUESTION NO: 41

Which of the following statements are true regarding the below `syslog.conf` configuration directive? (Select THREE) `*.err;kern.notice;auth.notice /dev/console`

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

Answer: B,C,D

QUESTION NO: 42

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

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

Answer: B

QUESTION NO: 43

Which of the following is the BEST way to temporarily suspend a user's ability to interactively login?

- A. Changing the user's UID.
- B. Changing the user's password.
- C. Changing the user's shell to `/bin/false`.
- D. Removing the user's entry in `/etc/passwd`.
- E. Placing the command `logout` in the user's profile.

Answer: C

QUESTION NO: 44

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

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

Answer: C

QUESTION NO: 45

Which of the following commands is used to display user resource limits?

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

Answer: D

QUESTION NO: 46

Which of the following lines would an administrator find in the file `/etc/nsswitch.conf`?

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

Answer: C

QUESTION NO: 47

Which of the following commands can an administrator use to change a user's password expiry information? (Select THREE).

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

Answer: A,B,D

QUESTION NO: 48

Which of the following statements is true regarding the below `/etc/resolv.conf` file? search example.com 127.0.0.1 208.77.188.166

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

Answer: A

QUESTION NO: 49

Which of the following crontab entries could be used to set the system time at regular intervals?

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

Answer: E

QUESTION NO: 50

Which of the following outputs will the below command produce? `seq 1 5 20`

- A. 1
- 6
- 11

B. 1

5

10

15

C. 1

2

3

4

D. 2

3

4

5

E. 5

10

15

20

Answer: A

QUESTION NO: 51

When using ssh, which of the following can an administrator do to recover a lost passphrase for a DSA or RSA authentication key?

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

Answer: C

QUESTION NO: 52

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

- A. IP packet with a packet type
- B. ICMP packet with a message type

- D. UDP datagram with a protocol type
- E. UDP datagram with a payload

Answer: B

QUESTION NO: 53

Which of the following entries can an administrator add to syslog.conf file to have all syslog messages generated by the administrator system go file to have all syslog messages generated by the administrator? system go to virtual console 12?

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

Answer: A

QUESTION NO: 54 CORRECT TEXT

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

Answer: /ETC/AT.DENY

QUESTION NO: 55 CORRECT TEXT

The _____ command is used to add a group to the system. (Please enter only a single command and do not enter duplicate answers in this field.)

Answer: /USR/SBIN/GROUPADD, GROUPADD

QUESTION NO: 56

the following files should be edited to change the default background for it?

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

Answer: A

QUESTION NO: 57 CORRECT TEXT

What word is missing from the following SQL statement? `updatetablename _____ fieldname='value' where id=909;`

Answer: SET, SET

QUESTION NO: 58 CORRECT TEXT

What is the command to delete the default gateway from the system IP routing table? (Please specify the complete command with arguments, please no duplicate answers in this field.)

Answer: `/sbin/iproute del 0.0.0.0, /sbin/iproute del default, /sbin/route del 0.0.0.0, /sbin/route del default, iproute del 0.0.0.0, iproute del default, route del 0.0.0.0, route del default`

QUESTION NO: 59

An administrator is running an email server configured with the default settings. In which directory will the administrator commonly find the delivered mail for the user foo?

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

Answer: A

QUESTION NO: 60

For accessibility assistance, which of the following programs is an on-screen keyboard?

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

Answer: C

QUESTION NO: 61 CORRECT TEXT

What word is missing from the following SQL statement? select count(*) _____ tablename;

Answer: FROM

QUESTION NO: 62 CORRECT TEXT

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

Answer: EDIT-KEY

QUESTION NO: 63

All of the following are contained in the locale setting of the operating system EXCEPT:

- A. currency symbol
- B. language
- C. timezone

Answer: C

QUESTION NO: 64

An administrator discovers a pending job for the at command. Which of the following does the administrator need to use to remove it?

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

Answer: A

QUESTION NO: 65

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

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

Answer: A

QUESTION NO: 66

An administrator has a user whose account needs to be disabled but not removed. Which of the following should the administrator do?

- A. Edit /etc/gshadow and just remove the user name. and just remove the user? name.
- B. Edit /etc/passwd and change all numbers to 0.

- D. Edit /etc/passwd and insert an * after the first : .
- E. Edit /etc/group file and put a # sign in front of the user name. sign in front of the user? name.

Answer: D

QUESTION NO: 67

An administrator suspects that a gateway machine on their network has failed; the administrator is unsure which machine is the problem. Which of the following commands will help locate the problem machine?

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

Answer: E

QUESTION NO: 68 CORRECT TEXT

To slave the NTP daemon to an external source, an administrator needs to modify the _____ variable in the /etc/ntp.conf file.

Answer: SERVER

QUESTION NO: 69

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

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

Answer: E

QUESTION NO: 70

Which of the following is the BEST way to temporarily suspend a user's ability to interactively login?

- A. Changing the user's UID.
- B. Changing the user's password.
- C. Changing the user's shell to /bin/false.
- D. Removing the user's entry in /etc/passwd.
- E. Placing the command logout in the user's profile.

Answer: C

QUESTION NO: 71 CORRECT TEXT

An administrator wants to temporarily prevent users from logging in. Please complete the following command. touch /etc/_____

Answer: NOLOGIN

QUESTION NO: 72

An administrator needs to pause the CUPS printer Laserjet4, and wants to cancel all print jobs with a message, "hello". Which of the following commands will do this?

- A. cupsreject -c -r hello Laserjet4
- B. cupsreject -p -m hello Laserjet4
- C. cupsdisable -c -r hello Laserjet4
- D. cupsdisable -p -m hello Laserjet4

Answer: C

QUESTION NO: 73 CORRECT TEXT

An ISP has given an administrator an IP block for use. The block is 192.168.112.64/26. If the administrator uses the first usable IP for the router that is installed on the network, how many usable IPs are left? (Please enter the number and not a word)

Answer: 61

QUESTION NO: 74

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

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

Answer: C

QUESTION NO: 75

Which of the following commands would an administrator use to create an OpenSSH authentication key?

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

Answer: C

QUESTION NO: 76 CORRECT TEXT

An administrator is logged in as root. What command should the administrator run to find out what

Answer: /USR/BIN/GROUPSBRUNO,/USR/BIN/IDBRUNO,GROUPSBRUNO,IDBRUNO

QUESTION NO: 77

Which of the following can the chage command **NOT** change?

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

Answer: B

QUESTION NO: 78 CORRECT TEXT

An administrator is configuring a secured webserver, however connecting to https://127.0.0.1 is not working. The administrator runs netstat -ntl, which returns the following output: tcp 0 0 0.0.0.0:80 0.0.0.0:* LISTEN What port should be listening before a successful connection is possible? (Provide only the numerical value of the port).

Answer: 443

QUESTION NO: 79 CORRECT TEXT

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

Answer: /USR/BIN/LPQ, LPQ

QUESTION NO: 80

example.com 127.0.0.1 208.77.188.166

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

Answer: A

QUESTION NO: 81

Which of the following benefits does an alias provide?

- A. It provides faster lookups for commands.
- B. It prevents having to type long commands
- C. It hides from others the command that is being run.
- D. It creates a local copy of a file from another directory.

Answer: B

QUESTION NO: 82

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

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

Answer: B

QUESTION NO: 83

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

Answer: B

QUESTION NO: 84

All of the following information is provided in any output from the netstat utility EXCEPT:

- A. broadcast services
- B. interface statistics
- C. masquerading connections
- D. network connections
- E. routing tables

Answer: A

QUESTION NO: 85

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

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

Answer: C

QUESTION NO: 86

assignment and private routing? (Select TWO).

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

Answer: D,E

QUESTION NO: 87

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

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

Answer: C

QUESTION NO: 88

Which of the following is pool.ntp.org?

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

Answer: C

QUESTION NO: 89

Which of the following commands allows an administrator to make a shell variable visible to subshells?

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

Answer: B

QUESTION NO: 90

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

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

Answer: B

QUESTION NO: 91 CORRECT TEXT

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

Answer: /ETC/SKEL, /ETC/SKEL/

QUESTION NO: 92 CORRECT TEXT

Which IP protocol is connectionless and unreliable? (Please enter only a single answer and do not enter duplicate answers in this field.)

Answer: UDP, UDP, UDP/IP, UDP/IP

QUESTION NO: 93 CORRECT TEXT

What is the command to delete the default gateway from the system IP routing table? (Please specify the complete command with arguments, please no duplicate answers in this field.)

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

QUESTION NO: 94

In xorg.conf, which of the following sections is concerned with fonts?

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

Answer: B

QUESTION NO: 95

Which of the following is the purpose of the dig command?

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

Answer: D

QUESTION NO: 96 CORRECT TEXT

In an xinetdconfig file, what attribute specifies the network address that will be used to offer the service? (Please enter only one answer and do not enter duplicate answers in this field.)

Answer: BIND, INTERFACE

QUESTION NO: 97

Which of the following outputs will the below command sequence produce? echo '1 2 3 4 5 6' | while read a b c; do echo result: \$c \$b \$a; done

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

Answer: A

QUESTION NO: 98 CORRECT TEXT

The _____ command is used to print the network connections, routing tables, and interface statistics. (Please enter only a single command and do not enter duplicate answers in this field.)

Answer: /BIN/NETSTAT, /SBIN/IP, IP, NETSTAT

QUESTION NO: 99

X is running okay but an administrator is concerned that the correct color depth set is not configured.

Which of the following commands will show the administrator the running color depth while in X?

- A. xcd
- B. xcdepth
- C. xwininfo

E. cat /etc/X11

Answer: C

QUESTION NO: 100

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

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

Answer: C

QUESTION NO: 101

Which of the following outputs will the command seq 10 produce?

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

Answer: B

QUESTION NO: 102 CORRECT TEXT

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

Answer: /sbin/ifconfig, /sbin/ip, ifconfig, ip

QUESTION NO: 103

Which of the following is the purpose of the Sticky Keys feature in X?

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

Answer: A

QUESTION NO: 104

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

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

Answer: C

QUESTION NO: 105

An administrator is looking into a new script that they have just received from a senior administrator. In the very first line the administrator notices a `#!` followed by a path to a binary. Linux will:

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

Answer: B

QUESTION NO: 106

Which of the following commands should be used to print a listing of emails in the system's mail queue?

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

Answer: C

QUESTION NO: 107 CORRECT TEXT

Given the following line from /etc/nsswitch.conf: hosts: files mdns4_minimal [NOTFOUND=return] dns mdns4 By default, which file will be queried first for hostname lookups? (Provide the full path and filename).

Answer: /ETC/HOSTS

QUESTION NO: 108 CORRECT TEXT

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

Answer: LOGGER

QUESTION NO: 109

Each entry in a crontab must end with which of the following characters?

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

Answer: D

QUESTION NO: 110 CORRECT TEXT

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

Answer: .*

QUESTION NO: 111 CORRECT TEXT

To exclude all log messages of a given logging facility, an administrator should use a logging priority of _____ .

Answer: NONE

QUESTION NO: 112

A department decided to change the Gnome Display Manager's greeting. Which of the following configuration files should an administrator edit?

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

Answer: D

QUESTION NO: 113

Which of the following are commonly used Mail Transfer Agent (MTA) applications? (Select THREE).

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

Answer: A,C,D

QUESTION NO: 114 CORRECT TEXT

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

Answer: /ETC/SUDOERS

QUESTION NO: 115

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

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

Answer: D

QUESTION NO: 116 CORRECT TEXT

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

Answer: /ETC/HOSTS.DENY

QUESTION NO: 117

On a dual boot system, every time the system is booted back into Linux the time has been set backward by two hours. Which of the following commands will correct the problem so it will not occur again?

- A. ntpdate pool.ntp.org
- B. date -d 'two hours'

D. time hwclock

Answer: C

QUESTION NO: 118

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

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

Answer: D

QUESTION NO: 119

A senior executive asked an administrator to change the default background of the executive machine, which uses XDM. Which of the following filesA senior executive asked an administrator to change the default background of the executive? machine, which uses XDM. Which of the following files would the administrator edit to achieve this?

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

Answer: A

QUESTION NO: 120 CORRECT TEXT

Which directory in /etc is used to keep a sample copy of files and directories for when a new user

Answer: /etc/skel, /etc/skel/

QUESTION NO: 121

Which of the following lines is an example of a correct setting for the DISPLAY environment variable?

- A. hostname:displayname
- B. hostname:displaynumber
- C. hostname/displayname
- D. hostname/displaynumber
- E. hostname

Answer: B

QUESTION NO: 122

Which of the following characters in the password field of /etc/passwd is used to indicate that the encrypted password is stored in /etc/shadow?

- A. *
- B. -
- C. s
- D. x

Answer: D

QUESTION NO: 123

Which of the following commands can be used to change a user's account aging information? (Select THREE).

- A. usermod
- B. passwd
- C. chattr

E. chsh

Answer: A,B,D

QUESTION NO: 124

Why is /etc/shadow not world readable if the passwords are stored in an encrypted fashion?

- A. The encrypted passwords are still subject to brute force attacks.
- B. This is just for historical reasons.
- C. There is other information in the file that needs to be kept secret.
- D. The passwords can be decrypted by anyone with root access.

Answer: A

QUESTION NO: 125

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

- A. Add the user name to /etc/nologin.
- B. Change the user's password.
- C. Change the user name in /etc/passwd.
- D. Use chage to expire the user account.
- E. Place the command logout in the user's profile.

Answer: D

QUESTION NO: 126

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

- A. 1 0 * * * date \$d \$t \$24
- B. 1 0 * * * ntpdate ntp1.digex.net

- D. 1 0 * * * runcron date ntp1.digex.net
- E. 1 0 * * * settime \$d \$t \$24

Answer: B

QUESTION NO: 127

Which of the following commands can be used to convert text files in one character encoding to another character encoding?

- A. cat
- B. convert
- C. dd
- D. iconv
- E. utf2utf

Answer: D

QUESTION NO: 128 CORRECT TEXT

An administrator needs to sync the hardware clock with their system clock. In order to accomplish this, complete the following command:

_____ -u --systohc

Answer: hwclock, /usr/sbin/hwclock, /sbin/hwclock

QUESTION NO: 129

What is NTP?

- A. A more secure protocol replacement for FTP.
- B. A protocol and system for maintaining time on computers.
- C. A routing aid for finding next hops on a network.
- D. A simple tunneling protocol for computers behind firewalls.

Answer: B

QUESTION NO: 130

Which of the following commands is used on the command line to send messages to the syslog systems.

- A. lastlog
- B. klog
- C. logger
- D. slog
- E. syslog

Answer: C

QUESTION NO: 131

According to the FHS, where are user mailboxes kept? Assume that mail is not being delivered to somewhere in their home directories.

- A. /var/spool
- B. /etc/mail
- C. /var/mail
- D. /usr/mail

Answer: C

QUESTION NO: 132 CORRECT TEXT

What command is used to print a listing of email that is currently being managed by the MTA but has not yet been delivered? (Please specify the command with or without path)

Answer: mailq, /usr/bin/mailq, sendmail -bp, /usr/sbin/sendmail -bp, /usr/lib/sendmail -bp

QUESTION NO: 133 CORRECT TEXT

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

Answer: /etc/cups, /etc/cups/

QUESTION NO: 134

The legacy program, provided by CUPS for sending files to the printer queues on the command line is:

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

Answer: D

QUESTION NO: 135 CORRECT TEXT

What is the assigned port number for the HTTP service? (Provide the number with digits and not as a word)

Answer: 80

QUESTION NO: 136 CORRECT TEXT

An executive's ISP has given an IP block for their use. The block is 192.168.112.64/29. If the network administrator uses the first usable IP for the router that is installed on the executive's network, how many usable IPs are left? (Please enter the number and not a word)

Answer: 5

QUESTION NO: 137

Which of the following is the purpose of the nsswitch.conf file?

services and user passwords.

- B.** It is used to configure network protocol port numbers such as for HTTP or SMTP.
- C.** It is used to configure LDAP authentication services for the local system.
- D.** It is used to configure which network services will be turned on during the next system reboot.

Answer: A

QUESTION NO: 138

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

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

Answer: B

QUESTION NO: 139 CORRECT TEXT

An administrator can run the _____ command to see active network and UNIX domain socket connections as well as other open files. (Please specify the command with no path information, options or parameters)

Answer: lsof, /usr/bin/lsof

QUESTION NO: 140

Which of the following commands can deconfigure a network interface?

- A.** ipdown
- B.** net
- C.** ifconfig
- D.** netdown

Answer: C

QUESTION NO: 141

Which of the following commands manipulates the TTL (Time to Live) field in the IP protocol in order to get ICMP responses from gateways along the path to a host?

- A. dig
- B. host
- C. ping
- D. tcpdump
- E. traceroute

Answer: E

QUESTION NO: 142

Which of the following commands is used to set restrictions on the size of a core file that is created for a user when a program crashes?

- A. core
- B. edquota
- C. ulimit
- D. quota

Answer: C

QUESTION NO: 143

Which of the following configurations file does sudo read when determining if a user is permitted to run applications with root privileges?

- A. /etc/audit.conf
- B. /etc/shadow
- C. /etc/sudo.conf

Answer: D

QUESTION NO: 144 CORRECT TEXT

The xinetd service will be used instead of inetd. In order to create a similar configuration as inetd, what main file must be created or edited for xinetd? (Please specify the full path)

Answer: /etc/xinetd.conf

QUESTION NO: 145

When generating new authentication keys with SSH for a user, where should the private key be kept?

- A. On any trusted system from which the user will login.
- B. On a CD-ROM or USB stick.
- C. Printed and kept in a secure place.
- D. Only on the computer where the key was created.
- E. SSH does not use private keys.

Answer: A

QUESTION NO: 146 CORRECT TEXT

By default, the contents of which directory will be copied to a new user's home directory when the account is created by passing the -m option to the useradd command? (Please provide the full path)

Answer: /etc/skel, /etc/skel/

QUESTION NO: 147

Which of the following benefits does an alias in bash provide?

- B. It creates a local copy of a file from another directory.
- C. It hides what command you are running from others.
- D. It allows a string to be substituted for the first word of a simple command.

Answer: D

QUESTION NO: 148

An administrator is looking into a new script they received from a senior executive. In the very first line the administrator notices a #! followed by a file path. This indicates that:

- A. the file at that location was used to make the script.
- B. this script provides identical functionality as the file at that location.
- C. this script will self-extract into a file at that location.
- D. the program at that location will be used to process the script.

Answer: D

QUESTION NO: 149 CORRECT TEXT

What word is missing from the following SQL statement?

_____ count(*) from tablename;

Answer: select, SELECT

QUESTION NO: 150

Why is the xhost program considered dangerous to use?

- A. It makes it difficult to uniquely identify a computer on the network.
- B. It allows easy access to your X server by other users.
- C. It logs sensitive information to syslog.
- D. It makes your computer share network resources without any authentication.
- E. It is a graphical DNS tool with known exploits.

Answer: B

QUESTION NO: 151 CORRECT TEXT

What is the name of the simple graphical login manager that comes with a vanilla X11 installation? (Provide only the name of the program without any path information)

Answer: xdm

QUESTION NO: 152 CORRECT TEXT

What command will display the group names and GIDs to which a user belongs? (Provide only the command name with or without path information)

Answer: id, /usr/bin/id

QUESTION NO: 153

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

- A. Use `passwd -d username` to give the user an empty password.
- B. Use `chage` to expire the user account.
- C. Change the user's password.
- D. Add the command `exit` to the user's `.login` file.

Answer: B

QUESTION NO: 154

Which of the following is the conventional purpose of Linux UIDs that are lower than 100?

- A. They are reserved for super user accounts.
- B. They are reserved for the system admin accounts.
- C. They are reserved for system accounts.

E. They are used to match with GIDs in grouping users.

Answer: C

QUESTION NO: 155

How is the file format of /etc/crontab different from a normal crontab file? (Select TWO).

- A. The /etc/crontab file can specify a year field.
- B. A normal crontab file must be installed with the crontab command.
- C. A normal crontab file allows for environment variable substitution.
- D. The /etc/crontab file has a user field for commands.

Answer: B,D

QUESTION NO: 156

Which of the following is the main difference between the batch and at commands?

- A. The batch command will run multiple times. The at command will only run once.
- B. The batch command will run when system load is low. The at command runs at a specific time.
- C. The at command reads commands from standard input. The batch command requires a command line argument.
- D. The at command emails results to the user. The batch command logs results to syslog.

Answer: B

QUESTION NO: 157

The correct crontab entry to execute the script chklog three times per month between 3 p.m. and 5 p.m.:

- A. * 3, 4, 5 1 * * chklog
- B. 3 3, 4, 5 1 * * chklog

- D. 0 15, 16, 17 1 * * chklog
- E. * 15, 16, 17 1 * * chklog

Answer: D

QUESTION NO: 158

On a dual boot system, every time the system is booted back into Linux the time has been set backward by one day. Which of the following commands will correct the problem?

- A. date -d '+ 1 day'
- B. hwclock --systohc --localtime
- C. ntpdate pool.ntp.org
- D. time hwclock

Answer: B

QUESTION NO: 159

Which of the following commands should be used to print a listing of email in the system's mail queue?

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

Answer: B

QUESTION NO: 160 CORRECT TEXT

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

Answer: lpq, /usr/bin/lpq

QUESTION NO: 161 CORRECT TEXT

An ISP has given an executive an IP block for their use. The block is 192.168.112.64/27. If the network administrator uses the first usable IP for the router that is installed on the executive's network, how many usable IPs are left? (Please enter the number and not a word)

Answer: 29

QUESTION NO: 162

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

```
search example.com
```

```
nameserver 208.77.188.166
```

```
nameserver 208.77.188.167
```

- A. There is a syntax error.
- B. If DNS queries to the localhost fail, the server 208.77.188.166 will be queried.
- C. example.com will be appended to all host lookups.
- D. example.com will be appended to host names when they do not contain dots.
- E. The DNS server with the shortest ping time will be queried first. If the lookup fails, the second server will be queried.

Answer: D

QUESTION NO: 163 CORRECT TEXT

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

Answer: ifconfig, /sbin/ifconfig, ip, /sbin/ip

QUESTION NO: 164 CORRECT TEXT

host or gateway. (Provide only the command name with or without path information)

Answer: ping, /bin/ping

QUESTION NO: 165

An administrator suspects that a gateway machine on the network has failed but they are unsure which machine. Which of the following commands will help locate the problem?

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

Answer: E

QUESTION NO: 166 CORRECT TEXT

When searching for files owned by the root user, which option is required in the following command line:

```
find . _____ 0 -print
```

(Provide only the missing argument)

Answer: uid, -uid

QUESTION NO: 167 CORRECT TEXT

Which file contains a set of services and permitted hosts that will be allowed to connect to the server by going through a TCP Wrapper program such as tcpd? (Please enter the full path)

Answer: /etc/hosts.allow

QUESTION NO: 168

Which of the following commands is used to hold keys during a login session to be used for automatic authentication while logging in to other machines using ssh?

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

Answer: B

QUESTION NO: 169

What keyword is missing from this code sample of a shell script?

```
_____ i in *.txt; do  
  
echo $i  
  
done
```

- A. for
- B. loop
- C. until
- D. while

Answer: A

QUESTION NO: 170

Which of the following bash options will prevent an administrator from overwriting a file with a ">"?

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

Answer: C

QUESTION NO: 171 CORRECT TEXT

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

Answer: logger

QUESTION NO: 172

Which of the following is NOT contained in the locale setting of the operating system?

- A. Currency symbol
- B. Language
- C. Timezone
- D. Thousands separator

Answer: C

QUESTION NO: 173

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

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

Answer: A

QUESTION NO: 174 CORRECT TEXT

The system's timezone may be set by linking /etc/localtime to an appropriate file in which directory? (Provide the full path to the directory, without any country information).

Answer: /usr/share/zoneinfo, /usr/share/zoneinfo/

QUESTION NO: 175

Which of the following is NOT a Mail Transport Agent?

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

Answer: E

QUESTION NO: 176

A senior executive asked an administrator to change the default background of the executive's machine, which uses XDM. Which of the following files would the administrator edit to achieve this?

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

Answer: A

QUESTION NO: 177 CORRECT TEXT

With IPv6, how many bits have been used for the host identifier portion of an address? (Please enter the number and not a word)

Answer: 64