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Linux Essentials Certificate Exam, version 1.5

Sections
1. The Linux Community and a Career in Open Source
2. Finding Your Way on a Linux System
3. The Power of the Command Line
4. The Linux Operating System
5. Security and File Permissions

Exam A

QUESTION 1
Which of the following programs is not a graphical web browser?

A. Konqueror
B. Firefox
C. Links
D. Opera
E. Chrome

Correct Answer: C
Section: The Linux Community and a Career in Open Source
Explanation

Explanation/Reference:

QUESTION 2
Which of the following software packages is an e-mail server?

A. Postfix
B. Thunderbird
C. Apache
D. GIMP
E. MySQL

Correct Answer: A
Section: The Linux Community and a Career in Open Source
Explanation

Explanation/Reference:

QUESTION 3
What does LAMP mean?

A. The Linux Advanced Mode Programming Interface which gives advanced capabilities to application developers.
B. The bus ID of an attached USB device that emits light.
C. Short for Lightweight Access Management Protocol which synchronizes permissions in a network.
D. The combination of Linux, Apache, MySQL and PHP or other programming languages.
E. Short for lamport-clock which is important in distributed network computing.

Correct Answer: D
Section: The Linux Community and a Career in Open Source
Explanation

Explanation/Reference:

QUESTION 4
Which of the following answers are true for cloud computing? (Choose TWO correct answers.)

A. Cloud Computing provides new tools to manage IT resources.
B. From the business perspective, Cloud Computing means outsourcing or centralization of IT operations.
C. Cloud Computing is the opposite of green IT; i.e. the use of fossil, non-regenerative energy for computing.
D. Cloud Computing implies sharing all information with everyone else in 'the cloud'.

Correct Answer: AB
Section: The Linux Community and a Career in Open Source
Explanation

Explanation/Reference:

QUESTION 5
Which of the following is a Linux based operating system for use on mobile devices?

A. iOS
B. CentOS
C. Android

D. Debian

Correct Answer: C
Section: The Linux Community and a Career in Open Source
Explanation

Explanation/Reference:

QUESTION 6
Which one of the following is true about Open Source software?

A. Open Source software can not be copied for free.
B. Open Source software is available for commercial use.
C. The freedom to redistribute copies must include binary or executable forms of the software but not the source code.
D. Open Source software is not for sale.

Correct Answer: B
Section: The Linux Community and a Career in Open Source
Explanation

Explanation/Reference:

QUESTION 7
Which of the following is a requirement of the GPL license but not the BSD license?

A. Users who modify and distribute the software under the GPL license, must make the modifications they made, available to the recipients under the same license.
B. The GPL license forbids the removal of copyright and license notices from source code files that are distributed.
C. The GPL license contains a disclaimer of warranty requiring users not to hold the software authors liable for any damages.
D. The GPL license requires that any legal disputes be settled with the mediation of the Free Software Foundation.

Correct Answer: A
Section: The Linux Community and a Career in Open Source
Explanation

Explanation/Reference:

QUESTION 8
What is the first character for file or directory names if they should not be displayed by commands such as ls unless specifically requested?

A. \ (backslash)
B. . (dot)
C. - (minus)
D. _ (underscore)

Correct Answer: B
Section: Finding Your Way on a Linux System
Explanation

Explanation/Reference:

QUESTION 9
Which of the following commands moves the directory ~/summer-vacation and its content to ~/vacation/2011?

A. mv ~/vacation/2011 ~/summer-vacation
B. move -R ~/summer-vacation ~/vacation/2011
C. mv /home/summer-vacation /home/vacation/2011
D. mv ~/summer-vacation ~/vacation/2011
E. mv -R ~/summer-vacation ~/vacation/2011

Correct Answer: D
Section: Finding Your Way on a Linux System
Explanation

Explanation/Reference:

QUESTION 10

Which is a suitable command to find the next appearance of the word hidden in a man page being viewed from the command line?

A. find hidden
B. /? hidden
C. CTRL-F hidden
D. /hidden

Correct Answer: D
Section: Finding Your Way on a Linux System
Explanation

Explanation/Reference:

QUESTION 11
Which of the following are correct commands for changing the current directory to the user's home? (Choose TWO answers)

A. cd /home
B. cd ~
C. cd ..
D. cd
E. cd /

Correct Answer: BD
Section: Finding Your Way on a Linux System
Explanation

Explanation/Reference:

QUESTION 12
While deleting all files beginning with the letter a there was still the file Access.txt left. Assuming that it had the correct ownership, why was it not deleted?

A. Files with extensions need a different treatment.
B. rm had to be called with the option -R to delete all files.
C. The file Access.txt was probably opened by another application.
D. The file Access.txt was hidden.
E. Linux file names are case sensitive.

Correct Answer: E
Section: Finding Your Way on a Linux System
Explanation

Explanation/Reference:

QUESTION 13
Which command line can be used to search help files that mention the word "copy"?

A. man -k copy
B. whatis copy
C. man copy
D. copy help
E. copy –help

Correct Answer: A
Section: Finding Your Way on a Linux System
Explanation

Explanation/Reference:

QUESTION 14
Which command is used to make a shell variable known to subsequently executed programs?

A. export
B. announce
C. env
D. transfer
E. mv

Correct Answer: A
Section: Finding Your Way on a Linux System
Explanation

Explanation/Reference:

QUESTION 15
Which command lists all files in the current directory that start with a capital letter?

A. ls [A-Z]*
B. ls A-Z
C. ls A-Z*
D. ls --uppercasefiles
E. list-uppercase-files

Correct Answer: A
Section: Finding Your Way on a Linux System
Explanation

Explanation/Reference:

QUESTION 16
Which of the following commands will display a list of all files in the current directory, including those that may be hidden?

A. ls -a
B. ls --hidden
C. ls -h
D. ls –a

Correct Answer: A
Section: Finding Your Way on a Linux System
Explanation

Explanation/Reference:

QUESTION 17

Which of the following commands increases the number of elements in a directory? (Choose TWO answers)

A. touch newfile
B. create newfile
C. ls newfile
D. rmdir newdirectory
E. mkdir newdirectory

Correct Answer: AE
Section: Finding Your Way on a Linux System
Explanation

Explanation/Reference:

QUESTION 18
Which function does a shell program serve?

A. It provides a graphical environment.
B. It is responsible for establishing a connection to another computer.
C. It receives user commands and executes them.
D. It is responsible for logging a user into the system.

Correct Answer: C
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 19
Which of the following commands can be used to extract files from an archive?

A. tar -vf
B. tar -xvf
C. tar -evf
D. tar -e
E. tar –v

Correct Answer: B
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 20
How could one search for the file foo.txt under the directory /home?

A. search /home -file foo.txt
B. search /home foo.txt
C. find /home -file foo.txt
D. find /home -name foo.txt
E. find /home foo.txt

Correct Answer: D
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 21
What is the output of the following command?

  tail -n 20 test.txt

A. The first 20 lines of test.txt.
B. The last 20 lines of test.txt omitting the blank lines.
C. The last 20 lines of test.txt with line numbers.
D. The last 20 lines of test.txt including blank lines.

Correct Answer: D
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 22
Which commands will archive /home and its content to /mnt/backup? (Choose TWO correct answers.)

A. cp -ar /home /mnt/backup
B. mv /home /mnt/backup
C. sync -r /home /mnt/backup
D. tar -cf /mnt/backup/archive.tar /home
E. copy -r /home /mnt/backup

Correct Answer: AD
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 23
Why is the file data.txt empty after executing sort data.txt > data.txt?

A. Because, if data.txt is empty now, it must have been empty before.
B. Because sort cannot sort text files, only binary files.
C. Because sort detects that both files are the same.
D. Because the file gets truncated before sort is executed.

Correct Answer: D
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 24
What keyword is missing from the following segment of the shell script?

```
for i in *; _____
    cat $i
done
```

A. do
B. then
C. enod
D. fi
E. run

Correct Answer: A
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 25
Which of the following statements may be used to access the second command line argument to a script?

A. "$ARG2"
B. $1
C. "$2"
D. "$1"
E. '$2'

Correct Answer: C
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 26
How can the current directory and its subdirectories be searched for the file named MyFile.xml?

A. find . -name MyFile.xml
B. grep MyFile.xml | find
C. grep -r MyFile.xml .
D. less MyFile.xml
E. search Myfile.xml ./

Correct Answer: A
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 27
Which of the following commands will set the variable text to olaf is home? (Select TWO answers)

A. text=olaf\ is\ home
B. text=$olaf is home
C. $text='olaf is home'
D. text=='olaf is home'
E. text="olaf is home"

Correct Answer: AE
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 28
Which of the following commands will create an archive file, named backup.tar, containing all the files from the directory /home?

A. tar /home backup.tar
B. tar -cf /home backup.tar
C. tar -xf /home backup.tar
D. tar -xf backup.tar /home
E. tar -cf backup.tar /home

Correct Answer: E
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 29
What is the output of the following command?

```
for token in a b c; do
  echo -n ${token};
done
```

A. anbncn
B. abc
C. $token$token$token
D. {a}{b}{c}
E. a b c

Correct Answer: B
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 30
Which command will display the last line of the file foo.txt?

A. head -n 1 foo.txt
B. tail foo.txt
C. last -n 1 foo.txt
D. tail -n 1 foo.txt

Correct Answer: D
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 31
How can the normal output of a command be written to a file while discarding the error output?

A. command >2>file 1&>/dev/null
B. command < output > /dev/null
C. command > discard-error > file
D. command > /dev/null 2&>1 output
E. command >file 2>/dev/null

Correct Answer: E
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 32
Which of the following commands can be used to extract content from a tar file?

A. tar -xvf
B. tar -vf
C. tar -e
D. tar -c
E. tar –v

Correct Answer: A
Section: The Power of the Command Line
Explanation

Explanation/Reference:

QUESTION 33
Which of the following is a combined audio/video interface for transmission of digital data?

A. ATI

B. DVD

C. HDMI

D. VGA

E. DVI

Correct Answer: C
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 34
Which of the following commands is used to look up the current IP address of a system?

A. less /proc/net/ipconfig

B. ifconfig

C. showip

D. ipconfig

E. sysinfo | grep ipaddress

Correct Answer: B
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 35
Which of the following hardware devices links a number of computers together to form an Ethernet LAN?

A. Server

B. Switch
C. Connector
D. Access point
E. Terminal

Correct Answer: B
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 36
What is the number called that is used to identify a process?

A. Proc Num
B. PIN
C. Process Entry
D. PID

Correct Answer: D
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 37
Identify the proper device for the third partition, on the second hard disk, on the first IDE controller on a PC system.

A. /dev/hdb3
B. /dev/hd1b3
C. /dev/hdc1d2p3
D. dev/hdc1a3
E. dev/hdc1b3

Correct Answer: A
Section: The Linux Operating System

Explanation

Explanation/Reference:

QUESTION 38
A Linux computer has no access to the internet. Which command displays information about the network gateway for the system?

A. traceroute
B. ifconfig
C. gateway
D. route
E. ipconfig

Correct Answer: D
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 39
Where is the BIOS located?

A. RAM
B. Hard drive
C. Motherboard
D. LCD monitor

Correct Answer: C
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 40
Which network interface always exists in a Linux system?

A. lo
B. sit0
C. wlan0
D. vlan0
E. eth0

Correct Answer: A
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 41
Which command will display running process information in real time?

A. top
B. show current
C. ps current
D. process

Correct Answer: A
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 42
After installing a new package, in which directory are you most likely find its configuration file?

A. /lib
B. /conf
C. /etc
D. /usr
E. /opt

Correct Answer: C

Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 43
Which of the following Ubuntu releases is considered most stable and fit to use for business purposes?

A. LTS
B. Xubuntu
C. Ubuntu Vanilla
D. Kubuntu
E. Xubuntu Server

Correct Answer: A
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 44
What is the command that will show system boot time messages?

A. dmesg
B. echo
C. lspci
D. display system boot
E. messages

Correct Answer: A
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 45

Which of the following filesystems is most commonly used for Linux distributions?

A. HFS+
B. ext4
C. FAT32
D. NTFS

Correct Answer: B
Section: The Linux Operating System
Explanation

Explanation/Reference:

QUESTION 46
Which permissions should be given to a file that needs to be opened and edited by the file's owner and opened read-only by the file's group?

A. 0751
B. 0466
C. 0540
D. 0640
E. 0444

Correct Answer: D
Section: Security and File Permissions
Explanation

Explanation/Reference:

QUESTION 47
Which of the following commands can be used to determine the time of the last login of a given user?

A. showlog
B. recent
C. last
D. history
E. login

Correct Answer: C
Section: Security and File Permissions
Explanation

Explanation/Reference:

QUESTION 48
Which of the following files holds the definition of the local user accounts?

A. /etc/secret
B. /etc/users
C. /etc/passwd
D. /etc/id
E. /etc/home

Correct Answer: C
Section: Security and File Permissions
Explanation

Explanation/Reference:

QUESTION 49
What permissions are set on a file with the command chmod 654 file.txt?

A. drw-r-xr--
B. d--wxr-x--
C. --wxr-x--x
D. -rwxrw---x
E. -rw-r-xr—

Correct Answer: E
Section: Security and File Permissions
Explanation

Explanation/Reference:

QUESTION 50
Which statements about the directory /etc/skel are correct? (Choose TWO answers)

A. The personal settings of root are in this directory.
B. The files from the directory are copied to the home directory of the new user when starting the system.
C. The files from the directory are copied to the home directory of a new user when the account is created.

D. The directory contains a default set of configuration files used by the useradd command.
E. The directory contains the global settings for the Linux system.

Correct Answer: CD
Section: Security and File Permissions
Explanation

Explanation/Reference: