

010-160

Number: 010-160  
Passing Score: 800  
Time Limit: 120 min  
File Version: 1

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## Exam A

### QUESTION 1

What are the differences between hard disk drives and solid state disks? (Choose two.)



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- A. Hard disks have a motor and moving parts, solid state disks do not.
- B. Hard disks can fail due to physical damage, while solid state disks cannot fail.
- C. Solid state disks can store many times as much data as hard disk drives.
- D. `/dev/sda` is a hard disk device while `/dev/ssda` is a solid state disk.
- E. Solid state disks provide faster access to stored data than hard disks.

**Correct Answer:** AE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Which of the following types of bus can connect hard disk drives with the motherboard?

- A. The RAM bus
- B. The NUMA bus
- C. The CPU bus
- D. The SATA bus
- E. The Auto bus

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 3**

Members of a team already have experience using Red Hat Enterprise Linux. For a small hobby project, the team wants to set up a Linux server without paying for a subscription. Which of the following Linux distributions allows the team members to apply as much of their Red Hat Enterprise Linux knowledge as possible?

- A. Ubuntu Linux LTS
- B. Raspbian
- C. Debian GNU/Linux
- D. CentOS
- E. openSUSE

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 4**

Which of the following outputs comes from the command `free`?

A. 21:04:15 up 14 days, 7:43, 3 users, load average: 0.89, 1.00, 0.99

```
avg-cpu:  %user   %nice   %system %iowait  %steal   %idle
           34.04    0.03    13.88    1.06    0.00    50.99
```

```
Filesystem            Size      Used      Avail   Use%   Mounted
on
/dev/mapper/vg_ssd- 25G       20G       3.6G     85%    /
root
```

1.8M /tmp

```
      total      used      free      shared  buff/cache  available
Mem: 16123128 12565680 2011624 412128   1545824    7180416
```

A.

B.

C.

D.

E.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 5

Which of the following outputs could stem from the command `last`?

- A. 1 ls  
2 cat text.txt  
3 logout
- B. Password for user last changed at Sat Mar 31 16:38:57 EST 2018
- C. Last login: Fri Mar 23 10:56:39 2018 from server.example.com
- D. EXT4-fs (dm-7): mounted filesystem with ordered data mode. Opts: (null)
- E. root tty2 Wed May 17 21:11 - 21:11 (00:00)

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



### QUESTION 6

What is the UID of the user root?

- A. 1
- B. -1
- C. 255
- D. 65536
- E. 0

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 7

Which permissions are set on a regular file once the permissions have been modified 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:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 8

Which command adds the new user `tux` and creates the user's home directory with default configuration files?

- A. `defaultuser tux`
- B. `useradd -m tux`
- C. `usercreate tux`
- D. `useradd -o default tux`
- E. `passwd -a tux`

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 9

Which of the following keys can be pressed to exit `less`?

A. I	
B.....	3
C.....	4
D.....	4

E. !

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

The current directory contains the following file:

```
-rwxr-xr-x 1 root root 859688 Feb 7 08:15 test.sh
```

Given that the file is a valid shell script, how can this script be executed? (Choose two.)

- A. run test.sh
- B. \${test.sh}
- C. cmd ./test.sh
- D. ./test.sh
- E. bash test.sh

**Correct Answer:** DE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

A directory contains the following files:

a.txt

b.txt

c.cav

What would be the output of the following shell script?  
for file in \*.txt

do

echo \$file

done

- A. \*.txt
- B. a b
- C. c.cav
- D. a.txt
- E. a. txt b. txt

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

Which of the following commands will 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:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 13

The current directory contains the following file:

```
-rw-r--r-- 1 root exec 24551 Apr 2 12:36 test.sh
```

The file contains a valid shell script, but executing this file using `./test.sh` leads to this error:

```
bash: ./test.sh: Permission denied
```

What should be done in order to successfully execute the script?

- A. The file's extension should be changed from `.sh` to `.bin`.
- B. The execute bit should be set in the file's permissions.
- C. The user executing the script should be added to the `exec` group.
- D. The SetUID bit should be set in the file's permissions
- E. The script should be run using `#!/test.sh` instead of `./test.sh`.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 14

What is a Linux distribution?

- A. The Linux file system as seen from the root account after mounting all file systems.
- B. A bundling of the Linux kernel, system utilities and other software.
- C. The set of rules which governs the distribution of Linux kernel source code.
- D. An operating system based on Linux but incompatible to the regular Linux kernel.
- E. A set of changes to Linux which enable Linux to run on another processor architecture.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 15

Which package management tool is used in Red Hat-based Linux Systems?

- A. portage
- B. rpm
- C. apt-get
- D. dpkg
- E. packagectl



**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

Where is the operating system of a Raspberry Pi stored?

- A. On the master device attached to the Raspberry Pi's IDE bus.
- B. On a read only partition on the Raspberry Pi's firmware, next to the BIOS.
- C. On a removable SD card which is put into the Raspberry Pi.



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- D. On a Linux extension module connected to the Raspberry Pi's GPIO pins.
- E. On rewritable flash storage which is built into the Raspberry Pi.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 17

Why are web browser cookies considered dangerous?

- A. Cookies support identification and tracking of users.
- B. Cookies are always public and accessible to anyone on the internet.
- C. Cookies consume significant amounts of storage and can exhaust disk space.
- D. Cookies store critical data which is lost when a cookie is deleted.
- E. Cookies can contain and execute viruses and malware.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

Which of the following characters in a shell prompt indicates the shell is running with root privileges?

- A. !
- B. #
- C. \*
- D. &
- E. \$

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 19

Which of the following commands are used to get information on the proper use of ls? (Choose two.)

- A. `option ls`
- B. `usage ls`
- C. `manual ls`
- D. `man ls`
- E. `info ls`

**Correct Answer:** DE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 20

A user is currently in the directory `/home/user/Downloads/` and runs the command

```
ls ../Documents/
```

Assuming it exists, which directory's content is displayed?

- A. /home/user/Documents/
- B. /home/user/Documents/Downloads/
- C. /home/user/Downloads/Documents/
- D. /Documents/
- E. /home/Documents

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 21

A directory contains the following three files:

```
texts 1.txt  
texts 2.txt  
texts 3.csv
```



Which command copies the two files ending in .txt to the /tmp/ directory?

- A. cp ?? .txt /tmp/
- B. cp \*.txt /tmp/
- C. cp. \.txt /tmp/
- D. cp ?.txt /tmp/
- E. cp \$?.txt /tmp/

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

Which of the following DNS record types hold an IP address? (Choose two.)

- A. NS
- B. AAAA
- C. MX
- D. A
- E. CNAME

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

Which of the following values could be a process ID on Linux?

- A. /bin/bash
- B. 60b503cd-019e-4300-a7be-922f074ef5ce
- C. /sys/pid/9a14
- D. fff3
- E. 21398



**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

Which of the following is a protocol used for automatic IP address configuration?

- A. NFS
- B. LDAP

- C. SMTPD. DNS
- E. DHCP

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 25

Which of the following statements regarding Linux hardware drivers is correct?

- A. Drivers are regular Linux programs which have to be run by the user who wants to use a device.
- B. Drivers are not used by Linux because the BIOS handles all access to hardware on behalf of Linux.
- C. Drivers are stored on their devices and are copied by the Linux kernel when a new device is attached
- D. Drivers are downloaded from the vendor's driver repository when a new device is attached.
- E. Drivers are either compiled into the Linux kernel or are loaded as kernel modules.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 26

What can be found in the `/proc/` directory?

- A. One directory per installed program.
- B. One device file per hardware device.
- C. One file per existing user account.
- D. One directory per running process.
- E. One log file per running service.

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Which of the following directories must be mounted with read and write access if it resides on its own dedicated file system?

- A. /opt
- B. /lib
- C. /etc
- D. /var
- E. /usr

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 28**

Which files are the source of the information in the following output? (Choose two.)

```
uid=1000 (bob) gid=1000 (bob) groups=1000 (bob), 10 (wheel), 150 (wireshark), 989 (docker), 1001 (libvirt)
```

- A. /etc/id
- B. /etc/passwd
- C. /etc/group
- D. /home/index
- E. /var/db/users

**Correct Answer: BC**

**Section: (none)**

**Explanation**



**Explanation/Reference:**

**QUESTION 29**

Which of the following commands shows the absolute path to the current working directory?

- A. `who`
- B. `cd ..`
- C. `pwd`
- D. `ls -l`
- E. `cd ~/home`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 30**

Which of the following commands output the content of the file `Texts 2.txt`? (Choose two.)

- A. `cat 'Texts 2.txt'`
- B. `cat -- Texts 2.txt` C. `cat |Texts 2.txt|`
- D. `cat 'Texts\ 2.txt'`
- E. `cat Texts\ 2.txt`

**Correct Answer: AB**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

Which of the following commands puts the lines of the file `data.csv` into alphabetical order?

- A. `a..z data.csv`
- B. `sort data.csv`
- C. `abc data.csv`
- D. `wc -s data.csv`
- E. `grep --sort data.csv`

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

Which of the following commands creates the ZIP archive `poems.zip` containing all files in the current directory whose names end in `.txt`?

- A. `zip *.txt > poems.zip`
- B. `zcat *.txt poems.zip`
- C. `zip poems.zip *.txt`
- D. `zip cfz poems.zip *.txt`
- E. `cat *.txt | zip poems.zip`

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 33

Which one of the following statements concerning Linux passwords is true?

- A. All passwords can be decrypted using the system administrator's master password.

- B. Passwords may never start with a non-letter.
- C. Users cannot change their password once it has been set.
- D. Passwords are only stored in hashed form.
- E. Passwords may be at most six characters long.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 34**

Which of the following Linux Distributions is derived from Red Hat Enterprise Linux?

- A. Raspbian
- B. openSUSE
- C. Debian
- D. Ubuntu
- E. CentOS



**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 35**

What are the differences between a private web browser window and a regular web browser window? (Choose three.)

- A. Private web browser windows do not allow printing or storing websites.
- B. Private web browser windows do not store cookies persistently.
- C. Private web browser windows do not support logins into websites.
- D. Private web browser windows do not keep records in the browser history.
- E. Private web browser windows do not send regular stored cookies.

**Correct Answer:** BDE

Section: (none)

Explanation

Explanation/Reference:



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