

Review Test Submission: Quiz 1

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Course	23/VS_CSCI_6638_V2 Operating Systems
Test	Quiz 1
Started	2/11/23 8:01 PM
Submitted	2/11/23 8:21 PM
Status	Completed
Attempt Score	84.15 out of 100 points
Time Elapsed	19 minutes out of 30 minutes
Results Displayed	All Answers, Submitted Answers, Correct Answers

Question 1

5 out of 5 points

Which of the following statements best describes Dynamic Random Access Memory (DRAM)?

Selected



D.

Answer:

A volatile storage that does require continuous power refreshment, which results in high power consumption.

Answers:

A.

A non-volatile storage that does NOT require continuous power refreshment, which results in low power consumption.

B.

A non-volatile storage that does require continuous power refreshment, which results in high power consumption.

C.

A volatile storage that does NOT require continuous power refreshment, which results in low power consumption.



D.

A volatile storage that does require continuous power refreshment, which results in high power consumption.

Question 2

5 out of 5 points

Which of the following statements best describes Static Random Access Memory (SRAM)?

Selected



D.

Answer:

A volatile storage that does NOT require continuous power refreshment, which results in low power consumption.

Answers:

A.

A volatile storage that does require continuous power refreshment, which results in high power consumption.

B.

A non-volatile storage that does require continuous power refreshment, which results in high power consumption.

C.

A non-volatile storage that does NOT require continuous power refreshment, which results in low power consumption.




D.

A volatile storage that does NOT require continuous power refreshment, which results in low power consumption.

Question 3

5 out of 5 points

Which of the following best describes privileged instructions?

Selected Answer:  A. Instructions that are executed by the CPU in kernel mode

Answers:



A. Instructions that are executed by the CPU in kernel mode

B. Instructions that are executed by the CPU in user mode

C. Instructions that are executed by the CPU in any mode

D. None of the above

Question 4

5 out of 5 points

Which of the following protection rings does the Unix-like and Windows OS CPU use for kernel mode?

Selected Answer:  D. Ring 0

Answers:

A. Ring 3

B. Ring 1

C. Ring 2



D. Ring 0

Question 5

5 out of 5 points

Which of the following protection rings does the Unix-like and Windows OS CPU use for user mode?

Selected Answer: ☒ A. Ring 3

Answers: ☒ A. Ring 3
☐ B. Ring 1
☐ C. Ring 2
☐ D. Ring 0

Question 6

2.5 out of 5 points

Which of the following are examples of non-privileged instructions? SELECT ALL THAT APPLY.

Selected Answers: ☒ A. Arithmetic operations

Answers: ☒ A. Arithmetic operations
☐ B. Setting CPU timer
☐ C. I/O operations
☒ D. Reading system time

Question 7

2.5 out of 5 points

Which of the following are examples of privileged instructions? SELECT ALL THAT APPLY.

Selected Answers: ☒ A. I/O operations

☒ D. Reading system time
Answers: ☒ A. I/O operations
☒ B. Setting CPU timer
☐ C. Arithmetic operations
☐ D. Reading system time

Question 8

5 out of 5 points

Order the following storage devices, with fastest access time first.

Answers	Selected Answer
<input checked="" type="checkbox"/> 1. Registers	<input checked="" type="checkbox"/> 1. Registers
<input checked="" type="checkbox"/> 2. Cache Memory	<input checked="" type="checkbox"/> 2. Cache Memory

☒ 3. RAM☒ 4. SSD☒ 5. HDD☒ 3. RAM☒ 4. SSD☒ 5. HDD**Question 9**

5 out of 5 points

Order the following storage devices, with largest capacity first.

Answers

Selected Answer

☒ 1. HDD☒ 2. SSD☒ 3. RAM☒ 4. Cache Memory☒ 5. Registers☒ 1. HDD☒ 2. SSD☒ 3. RAM☒ 4. Cache Memory☒ 5. Registers**Question 10**

5 out of 5 points

Which of the following devices provide volatile storage? SELECT ALL THAT APPLY

Selected Answers: ☒ A. Registers☒ C. Cache Memory☒ D. RAM

Answers:

☒ A. Registers

B. HDD

☒ C. Cache Memory☒ D. RAM

E. SSD

Question 11

5 out of 5 points

Which of the following devices provide no-volatile storage? SELECT ALL THAT APPLY

Selected Answers: ☒ B. SSD☒ C. HDD

Answers:

A. Cache Memory

☒ B. SSD☒ C. HDD

D. RAM

E. Registers

Question 12

5 out of 5 points

Which of the following GNU/Linux commands can be used to get the kernel release version? SELECT ALL THAT APPLY.

Selected Answers: ☒ hostnamectl

☐ uname

☒ uname -a

☒ uname -r

Answers:

☒ hostnamectl

uname

☒ uname -a

☒ uname -r

Question 13

2.5 out of 5 points

Which of the following GNU/Linux commands can be used to locate where a program is stored? SELECT ALL THAT APPLY.

Selected Answers: ☒ A. whereis

☐ B. find

Answers:

☒ A. whereis

B. find

☒ C. which

D. whatis

Question 14

0 out of 5 points

Which of the following GNU/Linux commands can be used to locate program's manual pages? SELECT ALL THAT APPLY.

Selected Answers: ☐ A. find

Answers:

A. find

☒ B. whereis

C. which

D. whatis

Question 15

5 out of 5 points

Which of the following GNU/Linux commands can be used to display the content of a file? SELECT ALL THAT APPLY.

Selected Answers: ☒ B. cat
☒ C. more
☒ D. less

Answers: A. touch
☒ B. cat
☒ C. more
☒ D. less

Question 16

1.65 out of 5 points

Which of the following GNU/Linux commands can be used to navigate in the file system? SELECT ALL THAT APPLY.

Selected Answers: ☒ B. ls
☒ D. cd

Answers: ☒ A. pushd
B. ls
☒ C. popd
☒ D. cd

Question 17

5 out of 5 points

Which of the following GNU/Linux commands generates a 1GiB (2^{30} bytes) file of random bytes?

Selected Answer: ☒ D. dd if=/dev/random of=random bs=1M count=1024

Answers: A. dd if=/dev/random of=random bs=1M count=1000
B. dd if=/dev/random of=random bs=1000K count=1024
C. dd if=/dev/random of=random bs=1M
☒ D. dd if=/dev/random of=random bs=1M count=1024

Question 18

5 out of 5 points

Refer to the following output of the time command running dd:

```
real 0m3.309s
user 0m0.001s
sys 0m3.305s
```

What is the CPU time spent in user mode executing dd?

Selected Answer: 0m0.001s
☒ A.

Answers:

0m0.001s



A.

0m3.305s

B.

C. 0m3.309s

D. 0m3.306s

Question 19

5 out of 5 points

Refer to the following output of the time command running dd:

```
real 0m3.309s
user 0m0.001s
sys  0m3.305s
```

What is the CPU time spent in kernel mode executing dd?

Selected Answer:

0m3.305s



B.

Answers:

A. 0m3.309s

0m3.305s



B.

0m0.001s

C.

D. 0m3.306s

Question 20

5 out of 5 points

Refer to the following output of the time command running dd:

```
real 0m3.309s
user 0m0.001s
sys  0m3.305s
```

What is the CPU time spent in executing dd?

Selected Answer:



A. 0m3.306s

Answers:



A. 0m3.306s

0m3.305s

B.

C. 0m3.309s

0m0.001s

D.

Tuesday, May 30, 2023 5:16:57 PM EDT

← OK