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Started on Saturday, August 28, 2021, 11:03 PM

State Finished

Completed on Saturday, August 28, 2021, 11:15 PM

Time taken 12 mins 42 secs

Grade 10.00 out of 15.00 (67%)

Question **1**

Complete

0.00 points out of 1.00

Which of the following clears the interrupt by servicing the device?

Select one:

- ☐ a. interrupt vector
- ☒ b. interrupt request line
- ☐ c. interrupt service routine
- ☐ d. interrupt-controller hardware

Question **2**

Complete

1.00 points out of 1.00

Virtually all modern operating systems provide support for SMP

Select one:

- ☐ a. False
- ☒ b. True

Question **3**

Complete

1.00 points out of 1.00

Processors for most mobile devices run at a slower speed than a processor in a desktop PC.

Select one:

- ☒ a. True
- ☐ b. False

Question **4**

Complete

0.00 points out of 1.00

The process runs with effective UID all the time until the process is stopped.

Select one:

- ☐ a. No
- ☒ b. Yes

Question **5**

Complete

1.00 points out of 1.00

Skype uses a hybrid peer-to-peer approach.

Select one:

- ☒ a. Yes
- ☐ b. No

Question **6**

Complete

1.00 points out of 1.00

Which of the following is loosely coupled?

Select one:

- ☒ a. clustered system
- ☐ b. multi-core processor
- ☐ c. single-processor system
- ☐ d. multiprocessor systems

Question **7**

Complete

1.00 points out of 1.00

A system call runs in kernel mode only.

Select one:

- ☐ a. No
- ☒ b. Yes

Question 8

Complete

1.00 points out of 1.00

Which of the following is nonvolatile?

Select one:

- ☒ a. hard-disk drive
- ☐ b. main memory
- ☐ c. cache
- ☐ d. register

Question 9

Complete

1.00 points out of 1.00

Where is the location of L1 cache?

Select one:

- ☐ a. inside registers
- ☐ b. inside processor but outside CPU core
- ☐ c. inside main memory
- ☒ d. inside CPU core

Question 10

Complete

0.00 points out of 1.00

Which of the following statements is false?

Select one:

- ☐ a. Mobile devices can provide features that are unavailable on desktop or laptop computers.
- ☒ b. Mobile devices usually have fewer processing cores than a standard desktop computer.
- ☐ c. Mobile devices must be concerned with power consumption.
- ☐ d. The difference in storage capacity between a mobile device and laptop is shrinking.

Question 11

Complete

1.00 points out of 1.00

Which of the following technology reduces the overhead for bulk data movement?

Select one:

- ☐ a. Non-uniform Memory Access (NUMA)
- ☐ b. Storage Area Network (SAN)
- ☐ c. Symmetric Multiprocessing (SMP)
- ☒ d. Direct Memory Access (DMA)

Question **12**

Complete

0.00 points out of 1.00

Which of the following will trigger an interrupt?

Select one:

- ☐ a. kernel function
- ☒ b. CPU execution
- ☐ c. software execution
- ☐ d. I/O completion

Question **13**

Complete

0.00 points out of 1.00

Which of the following principles is used for adding and removing items from a queue?

Select one:

- ☐ a. first in first out (FIFO)
- ☒ b. last in first out (LIFO)
- ☐ c. round robin
- ☐ d. random order

Question **14**

Complete

1.00 points out of 1.00

The device controller _____ an interrupt by asserting a signal on the interrupt request line.

Select one:

- ☒ a. raises
- ☐ b. dispatches
- ☐ c. catches
- ☐ d. clears

Question **15**

Complete

1.00 points out of 1.00

Which of the following contains the addresses of all the service routines?

Select one:

- ☐ a. page table
- ☐ b. system call table
- ☐ c. file descriptor table
- ☒ d. interrupt vector

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