CSPB 3753 - Fall 2024 - Knox - Operating Systems

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Started on	Monday, 30 September 2024, 7:03 PM
State	Finished
Completed on	Monday, 30 September 2024, 7:10 PM
Time taken	6 mins 33 secs
Grade	10 out of 10 (100 %)
Question 1	
Correct	
Mark 1 out of 1	
To start an I/O ope	eration, a device driver loads the appropriate registers within the
Select one:	
a. Kernel	
b. GPU	
c. System Bus	
d. Secondary s	torage
e. Main Memor	y
o f. Device contro	oller 🗸
g. CPU	
Your answer is c	orrect.

Question **2**

Correct		
Mark 1 out of 1		
A keyboard is a while a USB drive is a		
Select one: a. block device, block device		
b. character device, character device		
o c. character device, block device		~
d. block device, character device		
Your answer is correct.		
Question 3		
Correct		
Mark 1 out of 1		
The Kernel identifies a driver with a		
Select one:		
a. Device file		
b. Minor number		
c. Module		
o d. Major number		~
Your answer is correct.		

Question 4	
Correct	
Mark 1 out of 1	
In interrupt-driven I\O, raises an interrupt by asserting a signal on the inter	rupt request line.
Select one:	
o device controller	~
device driver	
user	
a process	
Your answer is correct.	
Question 5	
Correct	
Mark 1 out of 1	
I/O is the most efficient method, when the device rarely needs to be service	d.
Select one:	
a. Polling	
b. Disconnected	
o c. Interrupt driven	✓
d. Volatile	
Your answer is correct.	

Question 6	
Correct	
Mark 1 out of 1	
Concurrency is:	
Select one:	
a. scheduling of multiple CPUs	
b. interleaving of processes to simulate parallelism	~
c. parallel execution of tasks	
d. device driver method of communication	
Your answer is correct.	
Question 7	
Correct Mark 3 aut of 3	
Mark 1 out of 1	
Who initiates a DMA transfer?	
Select one:	
a. Process being executed	
b. CPU	
o c. I/O devices	~
d. Operating System	
Your answer is correct.	

Question 8

Correct	
Mark 1 out of 1	
Which of the following is FALSE about DMA?	
Select one:	
a. The purpose of DMA is to free up the CPU during expensive I/O transfers	
b. DMA sends an interrupt to the CPU when it is finished	
c. DMA is made possible through specialized hardware	
o d. If DMA hardware is present for I/O transfers, it will always invoke itself to do any I/O transfer	~
Your answer is correct.	
Question 9	
Correct	
Mark 1 out of 1	
Which of the following is an advantage of LKMs.	
Select one: a. If the LKM has an error, it requires a total recompile of the kernel.	
b. Unused LKMs are a waste of memory since they are loaded at launch.	
c. LKMs do not require kernel mode access.	
d. Functionality may be added or removed from the kernel without a reboot.	~
Your answer is correct.	

Question 10
Correct
Mark 1 out of 1
(SELECT ALL THAT APPLY question, no partial credit, all or nothing)
Two device files may have
Different major numbers and the same minor number.
•
bThe same major number with different minor numbers.
✓
Different major and different minor numbers.
✓
dThe same major and the same minor number.
Your answer is correct.