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1. Which of the following statements regarding device drivers is true? a. Device drivers present a uniform device access interface to the kernel I/O subsystem. b. Device drivers manage only the newly emerging I/O devices that are unlike previous devices. c. Device drivers are part of the kernel I/O subsystem. **QUESTION 2** 1. Which of the following statements is true for a blocking I/O system call? a. The application continues to execute its code when the call is issued. b. Code using blocking I/O is harder to understand than the one using asynchronous I/O. c. The execution of the application is suspended when the call is issued. C d. The call returns immediately without waiting for the I/O to complete. **QUESTION 3** 1. Read or write performance of a hard disk drive depends on a. data transfer time b. seek time C c. rotational latency • d. all of the above **QUESTION 5** 1. Consider a set of four hard-disks, each of 200 GB storage capacity. What are the corresponding storage capacities if they are configured using RAID 0+1? a. 400 GB b. 200 GB c. 800 GB d.600 GB **QUESTION 3** 1. Which of the following holds output for a device that cannot accept interleaved data streams? a. spool b. cache c. buffer **QUESTION 4** 1. Consider a disk queue holding requests to the following cylinders in the listed order: 116, 22, 3, 11, 75, 185, 100, 87. Using the C-LOOK scheduling algorithm, what is the order that the requests are serviced, assuming the disk head is at cylinder 88 and moving upward through the cylinders? a. 116 -> 22 -> 3 -> 11 -> 75 -> 185 -> 100 -> 87 © b. 87 -> 75 -> 100 -> 116 -> 185 -> 22 -> 11 -> 3 ° 100 -> 116 -> 185 -> 3 -> 11 -> 22 -> 75 -> 87

d. 100 -> 116 -> 185 -> 87 -> 75 -> 22 -> 11 -> 3

QUEST	TION 5
_	Consider a set of four hard-disks, each of 200 GB storage capacity. What are the corresponding storage capacities if they are configured using RAID 1+0?
	© a. 400 GB
	C b. 200 GB
	© c. 600 GB
	C d. 800 GB
QUEST	TION 5
1.	Consider a set of four hard-disks, each of 200 GB storage capacity. What are the corresponding storage capacities if they are configured using RAID level 1?  a. 200 GB
	© b. 600 GB
	C c. 800 GB
	<b>⊙</b> d. 400 GB
QUEST	TION 2
1.	Which state will a process be after performing an asynchronous I/O system call?
	C <sup>a.</sup> waiting
	C <sup>b.</sup> ready
	c. running
QUEST	
1.	Which mechanism is more appropriate to use for reading a data block of a file repeatedly from hard-disk?
	C <sup>a.</sup> spool
	⊙ <sup>b.</sup> cache
	C c. buffer
QUEST	
1.	Consider a set of four hard-disks, each of 200 GB storage capacity. What are the corresponding storage capacities if they are configured using RAID level 0?
	a. 600 GB
	© b. 200 GB
	C c. 800 GB
	C d. 400 GB
QUEST	TION 1
1.	Low-level formatting
	<ul> <li>a. is different from physical formatting</li> </ul>
	• b. divides a disk into sections that the disk controller can read and write
	c. is usually performed by the purchaser of the disk device

## QUESTION 1

1.	<ol> <li>Which of the following statements regarding device drivers is not true?</li> </ol>		
	• a	a. Device drivers manage only the basic I/O hardware devices.	
	O b	D. Device drivers present a uniform device access interface to the kernel I/O subsystem.	
		Add new I/O device doesn't need to change I/O interface and kernel I/O subsystem.	
<b>QUEST</b>	TION 2	2	
1.	Which state will a process be after performing a blocking I/O system call?		
	<b>⊙</b> a	<sup>a.</sup> waiting	
	O b	o. running	
		<sup>c.</sup> ready	
QUESTION 5			
1.	A RAID structure is primarily used		
		<sup>a</sup> to decrease the dependence on disk drives	
	<b>⊙</b> k	<sup>9.</sup> to ensure higher data reliability	
		c. for security reasons	