Started on	•
State	
	·
Time taken	
Grade	70.00 out of 100.00
Question 1	
Complete	
Mark 0.00 out of 1.00	
Flag question	
In a write-through ca	ache, when does the data get written to main memory?
a. Only when o	cache is full.
b. After a fixed	delay.
c. When backg	ground flush starts.
d. Immediately	after it is written to cache.
Question 2	
Complete	
Mark 1.00 out of 1.00	
	he command sudo hdparm -W 1 /dev/sda do?
	y cache pages to disk.
b. Displays the	
	write cache of the disk.
d. Disables the	write cache of the disk.
Question 3	
Complete	
Mark 1.00 out of 1.00	
Flag question	
The background flus	h threshold (vm.dirty_background_ratio) defines:
a. When the sy	rstem blocks writes.
b. The maximu	im percentage of memory that can be dirty.
c. The percent	age of dirty pages that triggers background flushing.
Od. The speed o	of the writeback daemon.
Question 4	
Complete	
Mark 1.00 out of 1.00	

The write-back cache improves performance mainly by:		
0 1 \A/wikim	ata immediately to disk	
_	ata immediately to disk. rites only in the CPU cache.	
	writes to memory until necessary.	
	caching temporarily.	
U. Disabiling	caching temporarily.	
Question 5		
Complete Mark 1.00 out of 1.00		
Flag question		
(<u>mag question</u>		
What happens if vi	m.dirty_ratio is reached in Linux?	
a. All proces	ses are terminated.	
ob. The kerne	b. The kernel starts background flush silently.	
c. Swap space	ce is expanded.	
d. Processes	performing writes are blocked until enough dirty pages are written.	
Question 6		
Complete		
Mark 1.00 out of 1.00		
What is the primar	y advantage of object storage over block storage?	
a. Scalability	and metadata-rich organization.	
b. Better trans	nsaction management.	
c. Hardware	-based caching.	
d. Faster writ	te performance.	
Question 7		
Complete		
Mark 1.00 out of 1.00		
Which of the follow	wing correctly represents the data flow in Linux caching layers?	
 a. Disk → RAM → CPU Cache 		
O b. CPU → Dis	sk Cache → RAM → Disk Media	
○ c. RAM → CI	PU → Disk Cache	
\bigcirc d. CPU \rightarrow RA	MM → Disk Cache → Disk Media	
Question 8		
Question O Complete		
Mark 0.00 out of 1.00		
▼ Flag question		

Which of the following statements best describes block storage?

Which process in Linux is responsible for periodically writing dirty pages from RAM to disk?

- a. pdflush / flush-x:y daemons
- ob. swapd
- oc. cron

Flag question

d. fsck

Question 10

Complete

Mark 0.00 out of 1.00

Flag question

Which statement best differentiates disk cache from memory cache?

- a. Disk cache is managed by the CPU; memory cache by the disk firmware.
- \bigcirc b. Disk cache is hardware-level; memory cache (page cache) is OS-level.
- oc. Disk cache is non-volatile.
- od. Both are controlled by the file system.

Finish review