CSPB 3753 - Fall 2024 - Knox - Operating Systems

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Started on	Saturday, 12 October 2024, 9:43 PM
State	Finished
Completed on	Saturday, 12 October 2024, 9:45 PM
Time taken	1 min 35 secs
Grade	10 out of 10 (100 %)
Question 1	
Correct	
Mark 1 out of 1	
A virtual file syste	m
Select one or more:	
a. translates va	arious file operations from the OS to different mounted file systems.
b. is only neces	ssary if running a VM or dual booting.
c. can not work	x with user space file systems.
d. is a layer wh	ich provides abstraction for various different file systems on the machine.
Your answer is o	porrect.

Question 2	
Correct	
Mark 1 out of 1	
Which of the follow	ving are DIS-advantages of using contiguous file allocation?
Select one or more:	
a. TLB misses	
b. sparse addres	ss spaces
c. external fragr	mentation 🗸
d. traversal later	ncy
e. size of file ne	eded before hand (a priori)
f. corruption of	pointer
g. large file over	head
Your answer is co	prrect.
Question 3	
Correct	
Mark 1 out of 1	
What is the major D	DIS-advantage of using linked-list allocation?
Select one:	
o a. has high over	head to perform random access
b. has higher ov	verhead costs than indexing
c. requires addit	tional blocks to store links
d. cannot be use	ed with sequential access

Your answer is correct.

Question 4

Correct
Mark 1 out of 1
Which of the following are used by the <i>inode</i> in UNIX-based file systems for block allocation?
Select one or more:
a. block bitmap
b. double indirect blocks
c. linked blocks
d. indirect blocks
e. tripe indirect blocks
f. direct blocks
g. bitmap allocation
Your answer is correct.
Question 5 Correct
Mark 1 out of 1
FAT(File Allocation Table) is a form of indexed allocation file structure.
Select one: True
● False ✔
Question 6
Correct Mark 1 out of 1
Mark 1 Out Of 1
Linked List allocatiions as well as FAT both suffer from traversal latency.
Select one:
True ✓False

Question 7

Correct	
Mark 1 out of 1	
What is meant by free space management?	
Select one:	
a. releasing the kernel memory allocated for open files	
b. keeping list of free space in memory mapped files	
c. keeping track of position for next byte of data in a file	
o d. keeping track of unallocated blocks	~
Your answer is correct.	
Question 8	
Correct	
Mark 1 out of 1	
What method is used to increase performance of any file system structure?	
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Select one:	
a. limiting number of shared files	
b. limiting the number of open files	
c. placing the file data in swap space	
o d. caching file data	~
Your answer is correct.	

Question 9	
Correct	
Mark 1 out of 1	
What method has successfully been applied to file consistency maintenance?	
Select one:	
a. linked list consistency checking	
b. logging operations in system log	
c. circular buffer for data retention	
d. log-based transaction file systems	•
Your answer is correct.	
Your answer is correct.	
Your answer is correct. Question 10	
Question 10 Correct	
Question 10	
Question 10 Correct	
Question 10 Correct Mark 1 out of 1	
Question 10 Correct Mark 1 out of 1 What is NFS?	
Question 10 Correct Mark 1 out of 1 What is NFS? Select one:	
Question 10 Correct Mark 1 out of 1 What is NFS? Select one: a. a network file system mounting protocol	