CSPB 3753 - Fall 2024 - Knox - Operating Systems

<u>Dashboard</u> / My courses / <u>2247:CSPB 3753</u> / <u>30 September - 6 October</u> / <u>Quiz on Module 6</u>

Started on	Monday, 7 October 2024, 7:02 PM
State	Finished
Completed on	Monday, 7 October 2024, 7:03 PM
Time taken	1 min 26 secs
Grade	10 out of 10 (100 %)
Question 1	
Correct	
Mark 1 out of 1	
What is disk seek	time?
Select one:	
a. time for r/w	head to find the track
b. time for sca	n to reach correct position
c. time for disk	to reach correct spin rate
d. time it takes	for sector to reach r/w head
Your answer is o	correct.
The correct answ	wer is: time for r/w head to find the track

2/24, 6:49 PM	Quiz on Module 6: Attempt review	
Question 2		
Correct		
Mark 1 out of 1		
What is Rotational Latency?		
Select one: a time it takes for sector to reach r/w head		~
a. time it takes for sector to reach r/w head		·
b. time for disk to reach correct spin rate		
c. time for arm to reach correct position		
d. time for r/w head to find the track		
Your answer is correct.		
The correct answer is: time it takes for sector	to reach r/w head	
Question 3		
Correct		
Mark 1 out of 1		
Mark Foctor F		
Why is disk scheduling required?		
Wily is disk solledding required:		
Select one:		
 a. we can improve bandwidth and access time 	ne by managing order of requests	~
b. we need to transfer data from whole track	at a time	
c. we need to make sure the write requests a	are processed before read requests	

Your answer is correct.

The correct answer is: we can improve bandwidth and access time by managing order of requests

d. we must handle different transfer rates for different disks

Question 4	
Correct	
Mark 1 out of 1	
FCFS Disk Schedul	ling is easy to implement but is prone to starvation
Select one:	
True	
● False ✔	
The correct answ	ver is 'False'.
Question 5	
Correct	
Mark 1 out of 1	
Which of these dis	k scheduling policies continually moves back and forth across whole disk platter?
Select one:	
a. FCFS	
b. SSTF	
c. LOOK	
o d. SCAN	
<u> </u>	
Your answer is co	prrect
The correct answ	
THE COHECT dilsw	CI IS. OOMIY

Question 6
Correct
Mark 1 out of 1

An array of disks is more likely to fail compared to a single disk. How is it that RAID arrays still manage to provide more data protection compared to a single disk?

S	elect one: a. By using either mirroring or striping					
b. By using dedicated hardware						
o. By using either mirroring or parity						
	d. By using better quality disks					
	Your answer is correct.					
	The correct answer is: By using either mirroring or parity					

Question **7**Correct

Mark 4 out of 4

A disk has 500 cylinders and is currently on location 250 heading towards the outer (higher numbered) cylinders.

What is the total time traversed by the following algorithms for requests of 260, 350, 100, 10, 410, 10

FCFS
1240

SSTF
560

LOOK 560 ✓

C-SCAN(only include active time for the head servicing requests)

350

Your answer is correct.