CSPB 3753 - Fall 2024 - Knox - Operating Systems

<u>Dashboard</u> / My courses / <u>2247:CSPB 3753</u> / <u>11 November - 17 November</u> / <u>Quiz on Module 12</u>

Started on	Monday, 18 November 2024, 11:28 PM
State	Finished
Completed on	Monday, 18 November 2024, 11:32 PM
Time taken	3 mins 43 secs
Grade	10 out of 10 (100 %)
Question 1	
Correct	
Mark 1 out of 1	
Which of the follo	wing best describes Belady's Anomaly?
Select one:	
a. Decreasing t	he frame size increases the number of page faults
• b. Increasing the	ne number of available frames increases the number of page faults Increasing the number of available frames increases the number of page faults
c. Increasing th	ne frame size increases the number of page faults
d. Decreasing t	he number of available frames increases the number of page faults
Your answer is o	orrect. ver is: Increasing the number of available frames increases the number of page faults
THE COHECT dilst	ver is. Increasing the number of available frames increases the number of page faults

Question 2
Correct
Mark 1 out of 1
Global page replacement selects
Select one:
a. a page from the current process
b. the least shared page
○ c. any page from any process
d. any page in memory
Your answer is correct. The correct answer is: any page from any process
Question 3 Correct Mark 1 out of 1
Demand paging demands that all of a processes' pages are either swapped in or out at a given time.
Select one:
True
○ False ✓
The correct answer is 'False'.

Question 4	
Correct	
Mark 1 out of 1	
The invalid bit is used	d for detecting:
Select one:	
a. if a page is not	in memory .
b. if a page does r	not exist anywhere
c. if a page has be	een modified
d. if a page is corr	rupted
Your answer is corr	rect.
The correct answer	r is: if a page is not in memory
Question 5	
Correct	
Mark 1 out of 1	
Modify or dirty bit in	a page table is used to reduce the number of disk accesses to read or write a page
Select one:	
True ✓	
False	
The correct answer	r is 'True'.
Question 6	
Correct	
Mark 1 out of 1	
A process is said to b	be "thrashing" if it spends more time executing than paging
Select one:	
True	
● False ✔	
The correct answer	ris 'False'.

Question /
Correct
Mark 1 out of 1
Which of the following are true about working sets?
adetermines the set of pages accessed within a timeframe
•
bnumber of pages will change with size of timeframe
✓
doo large of a timeframe may overlap multiple working sets
✓
deauses more page thrashing
thas the same number of pages for all timeframes
Your answer is correct.
The correct answers are: determines the set of pages accessed within a timeframe, number of pages will change with size of
timeframe, too large of a timeframe may overlap multiple working sets
Question 8 Correct
Mark 1 out of 1
Assume primary memory has 3 page frames all of which are empty. For the following sequence of page references, calculate the number
of page faults under the FIFO. [Please input an integer value]
Sequence: 1, 2, 3, 1, 4, 1, 2, 4, 2, 4, 3
Answer: 7 ✓

The correct answer is: 7

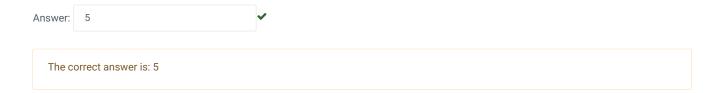
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Correct

Mark 1 out of 1

Assume primary memory has 3 page frames all of which are empty. For the following sequence of page references, calculate the number of page faults under the OPTIMAL algorithm. [Please input an integer value]

Sequence: 1, 2, 3, 1, 4, 1, 2, 4, 2, 4, 3



Question 10

Correct

Mark 1 out of 1

Assume primary memory has 3 page frames all of which are empty. For the following sequence of page references, calculate the number of page faults under the LRU. [Please input an integer value]

Sequence: 1, 2, 3, 1, 4, 1, 2, 4, 2, 4, 3



The correct answer is: 6