Dashboard / My courses / COSC3360SP2023-02 / EXAM 3 / Theory Part - Exam 3 (30 points / 1 attempt / 45 minutes) Started on Thursday, 27 April 2023, 4:00 PM State Finished Completed on Thursday, 27 April 2023, 4:11 PM Time taken 11 mins 26 secs **Grade 25.00** out of 30.00 (83.33%) The theory part of this exam uses free navigation when presenting the questions. Information SECTION 1. True or False questions (2 points each) Question 1 Correct Mark 2.00 out of 2.00 A page is a fixed-length block of main memory. Select one: True False Question ${\bf 2}$ Correct Mark 2.00 out of 2.00 A physical or absolute address represents an actual location in main memory. Select one: ● True False

1 of 4 5/8/2023, 2:31 PM

Question 3		
Correct		
Mark 2.00 out of 2.00		
In an inverted page table, the indexes of page table entries are the virtual page numbers.		
Select one:		
○ True		
Question 4		
Incorrect		
Mark 0.00 out of 2.00		
The rate monotonic scheduling algorithm selects the tasks with the highest rate.		
Select one:		
○ True		
False		
Question 5		
Correct		
Mark 2.00 out of 2.00		
DMA does not use interrupts		
Select one:		
○ True		
● False		
Question 6		
Correct		
Mark 2.00 out of 2.00		
In contiguous file allocation, compaction is performed to deal with the external fragmentation problem		
Select one:		
True ✓		
○ False		

2 of 4 5/8/2023, 2:31 PM

Information		
SECTION 2. Simple choice questions (3 points each)		
Question 7		
Correct		
Mark 3.00 out of 3.00		
Select the memo	ry management technique that suffers from internal fragmentation.	
Select one:		
O a. Simple S		
b. Simple I		
	Memory Segmentation	
O d. Dynami	c Partitioning	
Question 8		
Correct		
Mark 3.00 out of 3.00		
.		
The resident set	management combination where the page to be replaced is chosen from all available frames in main memory is:	
Select one:		
	location - Local Replacement	
	location - Global Replacement	
	Allocation - Local Replacement	
d. Variable	Allocation - Global Replacement ✓	
Question 9		
Correct		
Mark 3.00 out of 3.00		
In the two-hande	ed clock page replacement algorithm (UNIX SVR4), if the front-hand finds a page with the reference bit equal to zero, then:	
Select one:		
O a. The pag	e gets replaced	
b. The refe	rence bit remains unchanged♥	
O c. The fran	ne is locked	
O d. The refe	rence bit is set to 1	

3 of 4 5/8/2023, 2:31 PM

Question 10	
orrect	
Mark 3.00 out of 3.00	
Select the task chosen to be executed by the EDF scheduling algorithm at time zero, given four equal to 5,7,9,3 respectively	tasks A, B, C, and D, with completion deadlines
Select one:	
O a. A	
	
○ c. C	
○ d. B	
Question 11	
Forrect	
Mark 3.00 out of 3.00	
Select the block-oriented device:	
Select one:	
O a. Printer	
b. Disk ✓	
C. Communications Port	
Od. None of the above	
Question 12	
ncorrect	
Mark 0.00 out of 3.00	
Assuming that the disk head is located at track 100, select next track chosen by the shortest ser	rvice time first (SSTF) algorithm
Select one:	
 a. 10 ×	
O b. 160	
O c. 90	
O d. 115	
■ Extra credit question - Deadlocks	

4 of 4