reviewer4@nptel.iitm.ac.in ▼ Courses » Computer Organization and Architecture A Pedagogical Aspect Announcements Course Ask a Question **Progress** FAQ Unit 12 - Week 11: **Memory Sub-system Organization** Register for **Assignment for Week 11 Certification exam** The due date for submitting this assignment has passed. Course As per our records you have not submitted this Due on 2019-04-17, 23:59 IST. outline assignment. 1) Which of the following page replacement algorithms suffers from Belady's anomaly? How to access 1 point the portal FIFO Week 1: LRU Fundamentals of **Digital Computer** Optimal Page Replacement Both LRU and FIFO Week 2: Fundamental of No, the answer is incorrect. **Digital Computer** Score: 0 Week 3: **Accepted Answers:** Addressing **FIFO** Modes. **Instruction Set** 2) Assume that there are 3 page frames which are initially empty. If the page reference string 1 point and Instruction is 1,2,3,4,2,1,5,3,2,4,6,5, what will be the number of page faults using the optimal page replacement **Execution Flow** policy? Week 4: Addressing Modes, Instruction Set and Instruction **Execution Flow** Week 5: No, the answer is incorrect. Addressing Score: 0 Modes, **Accepted Answers:** Instruction Set and Instruction **Execution Flow** 3) Locality of reference implies that the page reference being made by a process: 1 point Week 6: will always be to the page used in the previous page reference Organization © 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -In association with A project of

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and Optimization of Micro-	Accepted Answers: ce De is likely to be one of the pages used in the last few page references	
programmed Controlled Control Unit	4) For the reference string 1, 2, 1, 3, 7, 4, 5, 6, 3, 1, how many more page faults occur with LRU than with the optimal page replacement policy?	1 point
Week 8: Organization and Optimization	0 0	
of Micro-		æ
programmed Controlled Control Unit	∃	C)
Control Onit	No, the answer is incorrect.	<u>~</u>
Week 9: Memory Sub-system	Score: 0	æ
Organization	Accepted Answers:	
Week 10: Memory	5) The optimal page replacement algorithm will select the page that	1 point
Sub-system Organization	Has not been used for the longest time in the past.	200
Week 11:	Will not be used for the longest time in the future.	
Memory Sub-system	Has been used least number of times.	
Organization	Has been used most number of times	
Cache Indexing	No, the answer is incorrect. Score: 0	
and Tagging Variations,	Accepted Answers:	
Demand Paging	Will not be used for the longest time in the future.	
Page	6) The accuracy of the working set depends on the selection of :	1 point
Replacement Algorithms	working set model	
Page Frame Allocation and	working set size	
Thrashing	memory size number of pages in memory	
Summary		
Quiz : Assignment for	No, the answer is incorrect. Score: 0	
Week 11	Accepted Answers:	
Week 12:	working set size	
Input/output Subsystem	7) Consider a virtual memory system with FIFO page replacement policy. For an arbitrary page access pattern, increasing the number of page frames in main memory will	1 point
TEXT TRANSCRIPTS	always decrease the number of page faults	
TRANSCRIF 13	always increase the number of page faults	
	sometimes increase the number of page faults	
	never affect the number of page faults	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	sometimes increase the number of page faults	
	8) In the working set model, for: 2615777751623412344434343441323	1 point
	if DELTA = 10, then the working set at time t1 (7 5 1) is :	
	(1, 2, 4, 5, 6)	

(2, 1, 6, 7, 3)	
(1, 6, 5, 7, 2)	
(1, 2, 3, 4, 5)	
No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
{1, 6, 5, 7, 2}	(VA)
9) If working set window is too small :	1 point
it will not encompass entire locality	
it may overlap several localities	₩.
it will cause memory problems	
none of the mentioned	<u>™</u>
No, the answer is incorrect.	
Score: 0	
Accepted Answers: it will not encompass entire locality	
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10) The algorithm by which we allocate memory to each process according to its size as:	is known 1 point
Proportional allocation algorithm	
Split allocation algorithm	
Equal allocation algorithm	
None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Proportional allocation algorithm	
Previous Page	End