Assignment 10

The due date for submitting this assignment has passed. 
As per our rounds you may not submit this assignment.

1. It is always beneficial in terms of timing efficiency to have demand paging than to load the pages from disk right away on program startup. 
   - True
   - False
   Accepted Answer: 
   1 point

2. Which of the following is true about demand paging?
   - Program is hardware supported to implement demand paging
   - Can not be completely implemented in software.
   - Sum total of the number of valid pages in all the page tables still can not exceed total number of memory frames.
   - All of the above
   Accepted Answer: 
   1 point

3. The memory access time is denoted by ‘t’ and ‘p’ is the probability of a page fault. If (1 - p) = 0.03 caused by the swapped out pages. Then the access time in expectation for a demand paging enabled memory system?
   - mx = p x fail time
   - mx = page fault time
   - mx = p x page fault time
   - mx = p x page fault overhead time
   Accepted Answer: 
   1 point

4. Select all the correct statements true for the page replacement policy?
   - 2nd chance algorithm is an approximation for LRU algorithm
   - 2nd chance algorithm is a better approximation for LRU algorithm where N = 2
   - LRU is lead to a number for the optimal page replacement algorithm
   - None of the above
   Accepted Answer: 
   1 point

5. Which of the following synchronization observations (or their equivalent) are used in V8?
   - Mutual Lock
   - Conditional variables
   - Semaphores
   - Monitors
   Accepted Answer: 
   1 point

6. What is a process said to be thrashing?
   - Increases
   - Keeps constant
   - Decreases
   Accepted Answer: 
   1 point

7. When a process is said to be thrashing?
   Accepted Answer: 
   1 point

8. The working set model is used to estimate the average number of frames a job will need in memory in order to run smoothly, without causing thrashing.
   - True
   - False
   Accepted Answer: 
   1 point