

MCQ Quiz

Question 1: Which of the following is a disadvantage of virtual memory?

- a. Increased degree of multi-programming
- b. User can run large apps with less real physical memory
- c. System can become slower
- d. Elimination of external fragmentation

Question 2: In demand paging, which of the following occurs when a process tries to access a page that is not in memory?

- a. The process is terminated
- b. The page is swapped into memory
- c. A page fault occurs
- d. The process is suspended

Question 3: Which page replacement algorithm replaces the page that has not been used for the longest period of time?

- a. FIFO
- b. Optimal

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c. LRU

d. LFU

Question 4: What is the term for a system that spends more time servicing page faults than executing processes?

a. Paging

b. Swapping

c. Thrashing

d. Fragmentation

Question 5: Which of the following is a technique to handle thrashing?

a. Increasing the number of frames allocated to the process

b. Decreasing the number of frames allocated to the process

c. Terminating the process

d. Restarting the process

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Question 6: In the working set model, what is the basic principle?

- a. If a process has enough frames to support its current locality, it will only fault when it moves to a new locality
- b. If a process has too many frames, it will experience thrashing
- c. If a process has too few frames, it will experience optimal performance
- d. The number of frames allocated to a process should be proportional to its size

Question 7: Which page replacement algorithm is difficult to implement because it requires future knowledge?

- a. FIFO
- b. LRU
- c. Optimal
- d. MFU

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Answers

Question 1: c

Question 2: c

Question 3: c

Question 4: c

Question 5: a

Question 6: a

Question 7: c