

MCQ Quiz

Question 1: What is the main purpose of an operating system?

- a. To manage hardware and software resources
- b. To create and delete files
- c. To run applications
- d. To provide a graphical user interface

Question 2: Which of the following is NOT a type of memory management technique?

- a. Contiguous memory allocation
- b. Non-contiguous memory allocation
- c. Virtual memory
- d. Disk caching

Question 3: What is the purpose of paging?

- a. To divide physical memory into fixed-sized blocks
- b. To divide logical memory into blocks of the same size

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- c. To avoid external fragmentation
- d. All of the above

Question 4: What is the advantage of segmentation?

- a. No internal fragmentation
- b. Efficient working within segments
- c. Smaller size of segment table
- d. All of the above

Question 5: What is the main disadvantage of virtual memory?

- a. Increased swap time
- b. Increased physical memory requirements
- c. Thrashing
- d. All of the above

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Question 6: Which page replacement algorithm is based on the principle of replacing the oldest page?

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

Question 7: Which page replacement algorithm has the lowest page fault rate?

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

Question 8: What is the main cause of thrashing?

- a. Too few frames allocated to a process
- b. Too many frames allocated to a process

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- c. High page-fault rate
- d. Low page-fault rate

Question 9: Which of the following is a technique to handle thrashing?

- a. Working set model
- b. Page fault frequency
- c. Belady's anomaly
- d. None of the above

Question 10: What is the difference between a process and a thread?

- a. A process is a program under execution, while a thread is a single sequence stream within a process
- b. A thread is a program under execution, while a process is a single sequence stream within a thread
- c. A process and a thread are the same thing

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d. None of the above

Question 11: Which of the following is a benefit of multi-threading?

a. Responsiveness

b. Resource sharing

c. Economy

d. All of the above

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Answers

Question 1: a

Question 2: d

Question 3: d

Question 4: d

Question 5: d

Question 6: a

Question 7: c

Question 8: a

Question 9: a

Question 10: a

Question 11: d