

MCQ Quiz

Question 1: What is the main disadvantage of Dynamic partitioning in memory management?

- a. Internal Fragmentation
- b. External Fragmentation
- c. Low degree of multi-programming
- d. Limitation on process size

Question 2: Which of the following is an advantage of Paging?

- a. Avoids external fragmentation
- b. Eliminates the need for compaction
- c. Improves memory utilization
- d. All of the above

Question 3: What is the role of a Page Table in paging?

- a. Stores the base address of each page in physical memory
- b. Contains the page number and page offset

MCQ Quiz

- c. Maps logical addresses to physical addresses
- d. Both a and c

Question 4: What is the main advantage of Segmentation over Paging?

- 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 goal of Virtual Memory?

- a. To execute processes that are not completely in the memory
- b. To increase the degree of multi-programming
- c. To allow users to run large apps with less real physical memory
- d. All of the above

MCQ Quiz

Question 6: Which of the following is NOT a type of Page Replacement Algorithm?

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

Question 7: What is the main cause of Thrashing?

- a. Insufficient number of frames for active pages
- b. High page-fault rate
- c. Both a and b
- d. None of the above

Question 8: Which of the following is a technique to handle Thrashing?

- a. Working set model
- b. Page Fault frequency control

MCQ Quiz

- c. Both a and b
- d. None of the above

Question 9: What is the main advantage of Demand Paging?

- a. Reduces swap time
- b. Decreases the amount of physical memory needed
- c. Improves performance by bringing only needed pages into memory
- d. All of the above

Question 10: Which of the following is a disadvantage of Virtual Memory?

- a. Increased page-fault rate
- b. Potential for Thrashing
- c. Both a and b
- d. None of the above

MCQ Quiz

Answers

Question 1: b

Question 2: d

Question 3: d

Question 4: d

Question 5: d

Question 6: b

Question 7: c

Question 8: c

Question 9: d

Question 10: c