Exam Answers

Question 1 : What is an Operating System (OS)? Explain its primary functions.

Answer : an operating system is an interface between the computers, users, hardware, and software resources.

Question 2 : Describe the difference between a process and a thread. How does thread management improve system performance?

Answer : a process is simply a program that has been executed from schedule time to the cpu. however, on the other hand, thread is a segment of the process so that the process can have multiple threads.

Question 4 : What is virtual memory? How does it work, and what are its advantages and disadvantages?

Answer : deadlock is a common problem in operating system where the two are more processes can concurrently.

Question 5 : Explain the concept of deadlock in operating systems. What are the necessary conditions for a deadlock to occur, and how can deadlocks be prevented or resolved?

Answer : types of scheduling algorithm. priority scheduling, shortest remaining time.

Question 6 : What are the various scheduling algorithms used in operating systems? Compare and contrast between at least two scheduling algorithms.

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