

# Exam Answers

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

Answer : an operating system is a software package that manages the computers, hardware, and software resources. there's an interface between the user and the computer. it's primary function is to. and streamlining computing experiences. the primary functions of an operating system are process management, comma, memory management, comma, file system management, comma, device management, comma, and the security and privacy.

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

Answer : process. these are basically the program that were dispatched from the ready state and are scheduled in the cp for executions. so it can create other processes which are known as child process or the other hand pregnancy segment of your process. which means your process can have a multiple threads and these multiple threads are contained within your process. your thread has three states colon running.

Question 3 : What is virtual memory? How does it work, and what are its advantages and disadvantages?

Answer : which one memory is a memory management technique where secondary memory can be used as if it were a part of the main memory.

Question 4 : 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 : deadlock is a situation in computing where two or more processes or unable to proceed because each is waiting for the other to release resources he got. some include mutual exclusion.

Question 5 : What are the various scheduling algorithms used in operating systems? Compare and contrast between at least two scheduling algorithms.

Answer : there are 6 popular process scheduling algorithms which we are going to discuss in this chapter. scheduling comma yesterday and scheduling comma priority scheduling comma shortest remaining time comma round robin scheduling comma multi levels queues scheduling. in the exam. exam. exam. and exam and exam. gender.