

Quiz Answers

Quiz 2:

In RR, the value of q must be smaller than the context switch.

False.

The time it takes for the dispatcher to stop one process and start another running is called dispatch latency.

What is the default action of a parent process when a child process terminates?

Collect the exit status of the child process.

Which of the following scheduling algorithms is most suitable for scheduling threads in a real-time system?

Priority scheduling.

Rate Monotonic Scheduling is generally not suitable for soft real-time systems.

False.

In FCFS, the turnaround time of a process is always proportional to its burst time.

False.

In a round-robin scheduling algorithm, how does the CPU scheduler handle CPU and I/O bursts?

All processes are given equal time slices, alternating between CPU bursts and I/O bursts.

What happens to a process when it completes a CPU burst?

It enters an I/O burst and waits for I/O completion.

Which of the following is true about preemptive scheduling?

A process can be interrupted and moved to the ready queue if a higher-priority process arrives.

In shared memory IPC, the communication is under the control of the operating system.

False.

When `fork()` is invoked in a multithreaded program to duplicate only the calling thread, what potential issues may arise?

Inconsistent states.

Cooperating process cannot be affected by the execution of another process.

False.

The One-to-One multithreading model allows:

Better parallelism since multiple threads can run on multiple processors