

Started on Monday, 4 August 2025, 4:04 PM**State** Finished**Completed on** Monday, 4 August 2025, 4:18 PM**Time taken** 13 mins 48 secs**Marks** 15.00/20.00**Grade** 75.00 out of 100.00**Question 1**

Complete

Mark 1.00 out of 1.00

A system using non-preemptive scheduling sees a long process arrive before a short one. What happens?

- ☒ a. Long process completes, delaying others
- ☐ b. CPU goes idle
- ☐ c. Short process gets executed first
- ☐ d. CPU switches to short process

Question 2

Complete

Mark 0.00 out of 1.00

In Round Robin scheduling, increasing the time quantum tends to:

- ☐ a. Make it more like FCFS
- ☐ b. Increase context switching
- ☒ c. Increase starvation
- ☐ d. Reduce throughput

Question 3

Complete

Mark 1.00 out of 1.00

In which scheduling algorithm does a running process continue until it completes or blocks itself?

- ☐ a. Round Robin
- ☐ b. SRTF
- ☐ c. Multilevel Queue
- ☒ d. FCFS

Question 4

Complete

Mark 1.00 out of 1.00

Preemptive scheduling leads to:

- ☐ a. Longer execution
- ☐ b. Less overhead
- ☐ c. Higher turnaround time
- ☒ d. Lower response time

Question 5

Complete

Mark 1.00 out of 1.00

Priority scheduling becomes preemptive when:

- ☐ a. CPU burst times are equal
- ☒ b. A higher priority process arrives during execution
- ☐ c. All processes have the same priority
- ☐ d. Time quantum is used

Question 6

Complete

Mark 0.00 out of 1.00

SRTF (Shortest Remaining Time First) is a:

- ☐ a. Non-preemptive scheduling
- ☐ b. Preemptive version of SJF
- ☐ c. Priority based non-preemptive
- ☒ d. FIFO scheduling

Question 7

Complete

Mark 1.00 out of 1.00

What is the key difference between preemptive and non-preemptive scheduling?

- ☐ a. Use of priority
- ☐ b. IO handling capability
- ☒ c. CPU can be taken away in preemptive
- ☐ d. Execution speed

Question 8

Complete

Mark 1.00 out of 1.00

What is the main drawback of non-preemptive scheduling?

- ☒ a. Inflexibility to handle urgent tasks
- ☐ b. Low throughput
- ☐ c. Poor CPU utilization
- ☐ d. Starvation

Question 9

Complete

Mark 0.00 out of 1.00

What is the major disadvantage of preemptive scheduling?

- ☐ a. Unfair CPU allocation
- ☐ b. Deadlock
- ☐ c. Overhead of context switching
- ☒ d. Low responsiveness

Question 10

Complete

Mark 1.00 out of 1.00

Which algorithm can lead to the "convoy effect"?

- ☐ a. Round Robin
- ☒ b. FCFS
- ☐ c. SRTF
- ☐ d. Multilevel Queue

Question 11

Complete

Mark 1.00 out of 1.00

Which algorithm ensures all processes get an equal share of CPU time?

- ☐ a. SJF
- ☐ b. Priority
- ☒ c. Round Robin
- ☐ d. FCFS

Question 12

Complete

Mark 1.00 out of 1.00

Which of the following algorithms is based on the concept of time quantum?

- ☐ a. SJF
- ☐ b. FCFS
- ☒ c. Round Robin
- ☐ d. Priority (Non-preemptive)

Question 13

Complete

Mark 1.00 out of 1.00

Which of the following can lead to starvation in preemptive scheduling?

- ☐ a. FCFS
- ☐ b. Multilevel Feedback Queue
- ☐ c. Round Robin
- ☒ d. SRTF

Question 14

Complete

Mark 1.00 out of 1.00

Which of the following is a non-preemptive algorithm?

- ☐ a. Priority (Preemptive)
- ☐ b. SRTF
- ☐ c. Round Robin
- ☒ d. FCFS

Question 15

Complete

Mark 1.00 out of 1.00

Which of the following is a preemptive scheduling algorithm?

- ☐ a. FCFS (First Come First Serve)
- ☐ b. Priority Scheduling (Non-preemptive)
- ☐ c. SJF (Shortest Job First)
- ☒ d. Round Robin

Question 16

Complete

Mark 0.00 out of 1.00

Which of the following is best for real-time systems?

- ☐ a. Priority Scheduling
- ☐ b. SJF
- ☐ c. FCFS
- ☒ d. Round Robin

Question 17

Complete

Mark 1.00 out of 1.00

Which of the following is true for non-preemptive scheduling?

- ☐ a. Results in high context switching
- ☐ b. Better suited for interactive systems
- ☒ c. Easy to implement but less responsive
- ☐ d. Always results in starvation

Question 18

Complete

Mark 1.00 out of 1.00

Which of the following scheduling algorithms is best suited for a time-sharing system?

- ☐ a. SJF
- ☐ b. Priority (Non-preemptive)
- ☒ c. Round Robin
- ☐ d. FCFS

Question 19

Complete

Mark 0.00 out of 1.00

Which scheduling method is best for minimizing waiting time if all processes arrive at the same time?

- ☐ a. SJF (Non-preemptive)
- ☐ b. Priority (Preemptive)
- ☐ c. FCFS
- ☒ d. Round Robin

Question 20

Complete

Mark 1.00 out of 1.00

Which scheduling policy results in the lowest average turnaround time for static job set?

- ☐ a. Priority (Preemptive)
- ☐ b. FCFS
- ☐ c. Round Robin
- ☒ d. SJF (Non-preemptive)