

1. With the round robin CPU scheduling in a time-shared system _____.

单选题 (10 分) 10分

- A. Using extremely small time slices degenerate in to last in first out algorithm
- B. Using extremely small time slices improve performance
- C. Using very large time slice degenerates in to first come first served algorithm
- D. Using medium sized time slices leads to shortest request time first algorithm

正确答案: C

2. _____ does the job of allocating a process to the processor.

单选题 (10 分) 10分

- A. Long term scheduler
- B. Short term scheduler
- C. Mid term scheduler
- D. Dispatcher

正确答案: D

3. In interactive environments such as time-sharing systems, the primary requirement is to provide reasonably good response time and in general, to share system resources equitably. In such situations, the scheduling algorithm that is most popularly applied is _____.

单选题 (10 分) 10分

- A. Shortest Remaining Time Next (SRTN) Scheduling
- B. Priority Based Preemptive Scheduling
- C. Round Robin Scheduling
- D. None of the above

正确答案: C

4. Dispatch latency is :

单选题 (10 分) 10分

- A. the speed of dispatching a process from running to the ready state
- B. the time of dispatching a process from running to ready state and keeping the CPU idle
- C. the time to stop one process and start running another one
- D. None of these



正确答案: C

5. Which of the following statements are true ?

- I. Shortest remaining time first scheduling may cause starvation
- II. Preemptive scheduling may cause starvation
- III. Round robin is better than FCFS in terms of response time

单选题 (10 分) 10分

- A. I
- B. I and II
- C. II and III
- D. All

正确答案: D

6. One of the disadvantages of the priority scheduling algorithm is that :

单选题 (10 分) 10分

- A. it schedules in a very complex manner
- B. its scheduling takes up a lot of time
- C. it can lead to some low priority process waiting indefinitely for the CPU
- D. None of these

正确答案: C



7. Consider the set of 4 processes whose arrival time and burst time are given below:

Process	Arrival Time	Burst Time
P1	0	7
P2	2	4
P3	4	2
P4	7	1

If the CPU scheduling policy is Shortest Job First (with preemption, calculate the average waiting time ① and average response time ②

填空题 (20 分) 20 分 (请按题目中的空缺顺序依次填写答案)

①

②

正确答案:

- ① 2.5
10/4
5/2
② 0.75
3/4



8. Suppose round robin scheduler is used and the quantum is 2. Given the below 4 processes:

Process	Arrival Time	Burst Time
P1	0	7
P2	2	4
P3	3	2
P4	9	1

The average waiting time is ① and the average response time is ②

填空题 (20 分) 20 分 (请按题目中的空缺顺序依次填写答案)

①

②

正确答案:

- ① 4.25
17/4
② 1.5
6/4
3/2

