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Operating Systems
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Example Test: Lesson 5

1. What do you understand with scheduling? (2 points).
2. Which of the following is correct? In a single processor machine: ____ (2 points)
 - a. only one process is waiting at a certain time
 - b. only two processes can be running at a certain moment
 - c. one process has the CPU and is also waiting
 - d. only one process can run at a time
 - e. none of these
3. Which of the following is correct? The scheduler is part of: ____ (2 points)
 - a. the CPU
 - b. the hardware
 - c. the system programs of the OS
 - d. the kernel of the OS
 - e. none of these
4. Which of the following is correct? The ready queue: _____ (2 points)
 - a. is always implemented as FIFO
 - b. is never implemented as FIFO
 - c. cannot be implemented as FIFO
 - d. can be implemented as FIFO
 - e. none of these
5. Describe what you understand with preemptive scheduling. (4 points)
6. Describe what the role of the dispatcher is. (4 points)
7. Describe what are the criteria optimized in batch systems. (4 points)
8. Which of the following is correct? The FCFS schema: _____ (2 points)
 - a. is preemptive
 - b. is nonpreemptive but processes can be interrupted
 - c. is preemptive but processes cannot be interrupted
 - d. is both preemptive and nonpreemptive

- e. none of these
9. Describe what is aging? (2 points)
10. Which of the following is correct? The RR schema:_____ (2 points)
- a. is always similar to FCFS
 - b. is similar to FCFS only when the time quantum is large
 - c. is different to FCFS only when the time quantum is large
 - d. is similar to FCFS only when the time quantum is small
 - e. none of these
11. Which of the following is correct? The multi-level queue schema:_____ (2 points)
- a. means the ready queue has many queues inside
 - b. means the ready queue is empty
 - c. means the ready queue is full
 - d. means the ready queue is split in different queues
 - e. none of these
12. What is the difference between asymmetric and symmetric multiprocessing. (4 points)
13. What is processor affinity? (4 points)
14. What is hyperthreading? (4 points)
15. What is process-contention scope (PCS)? (4 points)
16. What is bitmap scheduler? (4 points)
17. What is multilevel thread scheduling? (4 points)
18. What is deterministic modeling? (4 points)