



CSE316_Quiz03
11 Questions

NAME : _____

CLASS : _____

DATE : _____

1. What is a batch operating system?

- | | | | |
|----------------------------|---|----------------------------|---|
| <input type="checkbox"/> A | An operating system for personal computers | <input type="checkbox"/> B | An operating system that processes tasks in real-time |
| <input type="checkbox"/> C | An operating system that processes jobs in batches without user interaction | <input type="checkbox"/> D | An operating system that executes tasks in parallel |

2. What is the typical scheduling algorithm used in batch operating systems?

- | | | | |
|----------------------------|--------------------------------|----------------------------|---------------------|
| <input type="checkbox"/> A | Shortest Job First (SJF) | <input type="checkbox"/> B | Priority Scheduling |
| <input type="checkbox"/> C | First-Come-First-Served (FCFS) | <input type="checkbox"/> D | Round Robin (RR) |

3. Which type of real-time operating system is more suitable for critical systems like aerospace or medical devices?

- | | | | |
|----------------------------|----------------------------------|----------------------------|---------------------------------|
| <input type="checkbox"/> A | General-purpose operating system | <input type="checkbox"/> B | Batch operating system |
| <input type="checkbox"/> C | Soft real-time operating system | <input type="checkbox"/> D | Hard real-time operating system |

4. What is the key difference between a real-time operating system and other operating systems?

- | | | | |
|----------------------------|--|----------------------------|--|
| <input type="checkbox"/> A | Real-time operating systems are free, while others are paid | <input type="checkbox"/> B | Real-time operating systems respond to events within strict time constraints |
| <input type="checkbox"/> C | Real-time operating systems prioritize tasks based on user input | <input type="checkbox"/> D | Real-time operating systems can only handle one task at a time |

5. Which scheduling algorithm is commonly used in real-time operating systems to ensure timely task execution?

- | | | | |
|----------------------------|---|----------------------------|-------------------------------------|
| <input type="checkbox"/> A | First-Come-First-Served (FCFS) scheduling | <input type="checkbox"/> B | Shortest Job First (SJF) scheduling |
| <input type="checkbox"/> C | Earliest Deadline First (EDF) scheduling | <input type="checkbox"/> D | Round Robin (RR) scheduling |

6. Which feature allows a time-sharing operating system to allocate a small unit of CPU time to each user in rotation?

- | | |
|--|---|
| <input type="checkbox"/> A Job scheduling | <input type="checkbox"/> B Batch processing |
| <input type="checkbox"/> C Kernel management | <input type="checkbox"/> D Time-slicing |

7. Which feature allows a time-sharing operating system to allocate a small unit of CPU time to each user in rotation?

- | | |
|---|--|
| <input type="checkbox"/> A Job scheduling | <input type="checkbox"/> B Kernel management |
| <input type="checkbox"/> C Time-slicing | <input type="checkbox"/> D Batch processing |

8. What is the primary advantage of time-sharing operating systems over batch operating systems?

- | | |
|---|--|
| <input type="checkbox"/> A Lower cost of implementation | <input type="checkbox"/> B Support for parallel processing |
| <input type="checkbox"/> C Efficient utilization of CPU and other resources | <input type="checkbox"/> D Real-time task execution |

9. What is a multiprogramming operating system?

- | | |
|---|---|
| <input type="checkbox"/> A An operating system that allows multiple users to access the system simultaneously | <input type="checkbox"/> B An operating system that processes tasks in batches without user interaction |
| <input type="checkbox"/> C An operating system designed for real-time task execution | <input type="checkbox"/> D An operating system that allows multiple programs to reside in memory and run concurrently |

10. Which of the following statements is true about multiprogramming operating systems?

- | | |
|--|---|
| <input type="checkbox"/> A They do not support context switching. | <input type="checkbox"/> B They are not suitable for multi-user environments. |
| <input type="checkbox"/> C They allow multiple programs to run concurrently and share resources. | <input type="checkbox"/> D They can only execute one program at a time. |

11. Which is not a property of monolithic kernel?

- | | |
|---|---|
| <input type="checkbox"/> A It is a single static binary file | <input type="checkbox"/> B All services run in kernel space |
| <input type="checkbox"/> C It allows user-level applications to be built directly into the kernel | <input type="checkbox"/> D It is one large process running entirely in a single address space |

Answer Key

1. c

2. c

3. d

4. b

5. c

6. d

7. c

8. c

9. d

10. c

11. c