QUIZIZZ

NAME : _____

CLASS : _____

CSE316_Quiz04
10 Questions

DATE : _____

1. Which type of kernel provides more security and stability?

| A | **Hybrid kernel** | B | **Monolithic kernel** |
| C | **Exokernel** | D | **Microkernel** |

2. Which kernel type combines the advantages of both monolithic and microkernel architectures?

| A | Monolithic kernel | B | Exokernel |
| C | Microkernel | D | Hybrid kernel |

3. In a microkernel-based architecture, where are most of the operating system services located?

| A | Hypervisor | B | User space |
| C | Supervisor mode | D | Kernel space |

4. Which of the following is an advantage of a monolithic kernel?

| A | It is easier to maintain and update | B | Better modularity and isolation of components |
| C | It allows for easy communication between different components | D | It is more secure than other types of kernels |

5. Which type of kernel is Linux based on?

| A | Microkernel | B | Exokernel |
| C | Hybrid Kernel | D | Monolithic Kernel |

6. What is the primary function of an operating system kernel?

| A | GUI interface design | B | File system organization |
| C | Management of hardware resources | D | Execution of user applications |

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7. What is a process in an operating system?

A | A device driver

B | A program in execution

C | A single thread of execution

D | A portion of memory

8. In a multitasking environment, what is the purpose of the context switch?

A | To save and restore the state of a process so that execution can be resumed from the same point later

B | To transfer data between different devices

C | To increase the processing speed of the system

D | To switch between different user interfaces

9. Which of the following information is typically stored in a PCB?

A | Hard disk space

B | System clock settings

C | Process state

D | User preferences

10. What does PCB stand for in the context of operating systems?

A | Process Control Block

B | Process Control Buffer

C | Program Counter Buffer

D | Processor Counter Block

Answer Key

1. d	2. d	3. b	4. c
5. d	6. c	7. b	8. a
9. c	10. a		