QUIZIZZ

NAME : _____

CLASS : _____

CSE316_Quiz_Threads
8 Questions

DATE : _____

1. What is a thread in the context of an operating system?

A	A separate program	B	A type of process
C	A separate process	D	A lightweight process that shares the same resources with other threads in the same process

2. Which of the following is an advantage of using threads over processes?

A	Threads are independent of each other	B	Threads are slower than processes
C	Threads have their own address space	D	Threads share memory space and resources with other threads in the same process

3. In a multi-threaded process, each thread has its own:

A	Global variables	B	File descriptors
C	Heap	D	Stack and Registers

4. Which threading model offers better performance due to its ability to be fully managed by the user-level code?

A	User-level threading	B	Kernel-level threading
C	Hybrid threading	D	Process-level threading

5. The ability of a thread to run on a different core of a multi-core processor is known as:

A	Thread Serialization	B	Parallel execution
C	Thread affinity	D	Thread scheduling

6. Which operation involves saving the state of the current thread and restoring the state of a different thread for execution?

A	Thread Pooling	B	Thread Deadlock
C	Thread Synchronization	D	Thread Switching or Context switching

?

7. What is a race condition in the context of multithreading?

A	A condition where multiple threads are unable to access shared resources
B	A condition where the execution order of threads affects the final outcome
C	A condition where multiple threads are synchronized perfectly
D	A condition where a thread is blocked indefinitely

8. Which synchronization mechanism is used to prevent multiple threads from accessing shared resources simultaneously?

A	Thread migration
B	Mutual exclusion
C	Context switching
D	Thread affinity

Answer Key

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