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   B   A condition where the execution order of
      unable to access shared resources   threads affects the final outcome

C   A condition where multiple threads are   D   A condition where a thread is blocked
      synchronized perfectly   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