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Multithreading Quiz

4 out of 6 correct

1. What is multithreading in Python?
A process of running multiple threads simultaneously within a single process.
A process of running multiple processes simultaneously within a single thread.
A process of running multiple processes simultaneously within multiple threads.
A process of running a single process within multiple threads.
Explanation: A is the correct answer, as multithreading in Python is the process of running multiple threads simultaneously within a single process.
2. What is the purpose of multithreading in Python?
To improve the performance of a program by using multiple CPUs or CPU cores.
To improve the memory utilization of a program by using multiple CPUs or CPU cores.
To improve the overall efficiency of a program by using multiple CPUs or CPU cores.
To improve the input/output operations of a program by using multiple CPUs or CPU cores.
Explanation: A is the correct answer, as the primary purpose of multithreading in Python is to improve the performance of a program by using multiple CPUs or CPU cores.
3. Which module is used to create and manage threads in Python?
threading
multiprocessing
oncurrent.futures
queue
Explanation: A is the correct answer, as the threading module is used to create and manage threads in Python.
4. What is a mutex in multithreading?
A type of thread that performs a specific task.

A type of thread that runs in the background to handle incoming requests.

A synchronization primitive used to protect shared resources from being accessed multiple threads at the same time.	l by
A built-in function in Python that is used to release the Global Interpreter Lock.	
Explanation: C is the correct answer, as a mutex is a synchronization primitive used to proshared resources from being accessed by multiple threads at the same time.	otec
5. Which method is used to start a new thread in Python?	
start()	
run()	
create()	
<pre>begin()</pre>	
Explanation: A is the correct answer, as the start() method is used to start a new thread in Python.	า
6. What is the Global Interpreter Lock (GIL) in Python?	
A lock used to protect shared resources from being accessed by multiple threads the same time.	at
A mechanism used by Python to ensure that only one thread executes Python bytecode at a time.	
A thread that runs in the background to handle incoming requests.	
A type of thread that performs a specific task.	
Explanation: B is the correct answer, as the Global Interpreter Lock (GIL) is a mechanism to by Python to ensure that only one thread executes Python bytecode at a time.	ısed
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