Started on	Friday, October 11, 2024, 4:52 PM
State	Finished
Completed on	Friday, October 11, 2024, 4:57 PM
Time taken	4 mins 54 secs
Grade	**90.00** out of 100.00

Question 1

Correct

10.00 points out of 10.00

LWP is ____.

Select one:

- a.   placed between system and kernel threads
- b.   short for lightweight processor
- ⦿ c.   placed between user and kernel threads ✔
- d.   common in systems implementing one-to-one multithreading models

Your answer is correct.

The correct answer is: placed between user and kernel threads

Question 2

Correct

10.00 points out of 10.00

The ____ model maps many user-level threads to one kernel thread.

Select one:

- ⦿ a.   many-to-one ✔
- b.   many-to-many
- c.   one-to-one
- d.   two-level

Your answer is correct.

The correct answer is: many-to-one

Question 3

Correct

10.00 points out of 10.00

_____ is not considered a challenge when designing applications for multicore systems.

Select one:

○ a.   Identifying data dependencies between tasks

○ b.   Determining if data can be separated so that it is accessed on separate cores

◉ c.   Ensuring there is a sufficient number of cores ✔

○ d.   Deciding which activities can be run in parallel

Your answer is correct.

The correct answer is: Ensuring there is a sufficient number of cores

Question 4

Correct

10.00 points out of 10.00

Windows uses the ____.

Select one:

○ a.   one-to many-model

◉ b.   one-to-one model ✔

○ c.   many-to-one model

○ d.   many-to-many model

Your answer is correct.

The correct answer is: one-to-one model

Question 5

Correct

10.00 points out of 10.00

Which of the following statements regarding threads is false?

Select one:

○ a. The start() method actually creates a thread in the Java virtual machine.

○ b. Both Pthreads and Win32 threads share global data.

○ c. The Java method join() provides similar functionality as the WaitForSingleObject in Win32

◉ d. Sharing is automatically provided in Java threads. ✔

Your answer is correct.

The correct answer is: Sharing is automatically provided in Java threads.

Question 6

Correct

10.00 points out of 10.00

Cancellation points are associated with ___ cancellation.

Select one:

◉ a. deferred ✔

○ b. synchronous

○ c. asynchronous

○ d. non-deferred

Your answer is correct.

The correct answer is: deferred

Question 7

Correct

10.00 points out of 10.00

Thread-local storage is data that ___.

Select one:

○ a.   is not associated with any process

○ b.   is generated by the thread independent of the thread's process

◉ c.   is unique to each thread ✔

○ d.   has been modified by the thread, but not yet updated to the parent process

Your answer is correct.

The correct answer is: is unique to each thread

Question 8

Correct

10.00 points out of 10.00

According to Amdahl's Law, what is the speedup gain for an application that is 60% parallel and we run it on a machine with 4 processing cores?

Select one:

○ a.   .55

○ b.   .7

○ c.   1.43

◉ d.   1.82 ✔

Your answer is correct.

The correct answer is: 1.82

Question 9

Incorrect

0.00 points out of 10.00

Each thread has its own register set and stack.

Select one:

⚪ True

🔘 False ✖

The correct answer is 'True'.

Question 10

Correct

10.00 points out of 10.00

The single benefit of a thread pool is to control the number of threads.

Select one:

⚪ True

🔘 False ✔

The correct answer is 'False'.

◄ Lab-C2

Jump to...

Slides-Ch07 ►