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State Finished

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Time taken 3 mins 37 secs

Marks 15.00/15.00

Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

Which of the following statements are True?

- ☐ a. Different threads of a process can simultaneously run on different cores of the CPU
- ☐ b. Ensuring that only a single thread can execute in a critical section reduces concurrency issues.
- ☒ c. A deadlock is a situation, where a set of processes are blocked because each process is holding a resource and waiting for another resource acquired by another process ✓
- ☐ d. Locking mechanisms allow us to limit and control the number of theads running in a critical selection

The correct answer is: A deadlock is a situation, where a set of processes are blocked because each process is holding a resource and waiting for another resource acquired by another process

Question 2

Correct

Mark 1.00 out of 1.00

Which of the following is true about threads over process

- ☐ a. Threads take less time to create and terminate
- ☒ b. Quick communication between threads ✓
- ☐ c. Process takes less time to create and terminate
- ☐ d. Process enables faster context switching

The correct answer is: Quick communication between threads

Question 3

Correct

Mark 1.00 out of 1.00

If thread A has acquired lock, when can thread B can acquire lock?

- ☐ a. Thread B can acquire lock at the same time
- ☒ b. After the lock is leased by Thread A ✓

The correct answer is: After the lock is leased by Thread A

Question 4

Correct

Mark 1.00 out of 1.00

A thread shares its resources(like data, code, files) with _____

- ☒ a. other threads that belong to the same process ✓
- ☐ b. other process similar to the one that the thread belongs to
- ☐ c. other threads that belong to similar processes.
- ☐ d. All of the given options

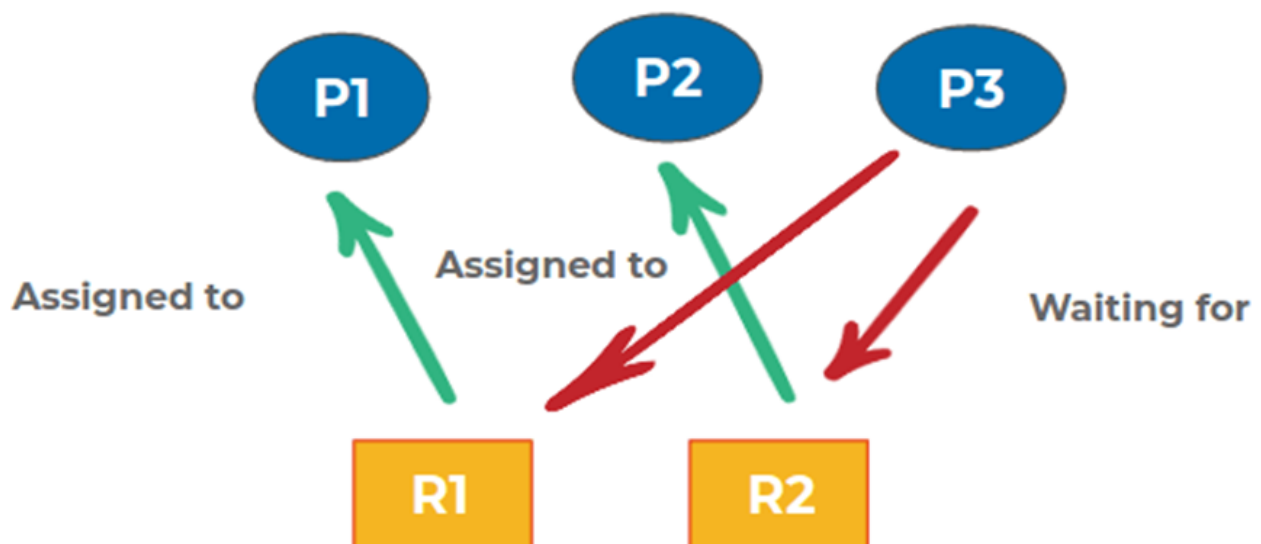
The correct answer is: other threads that belong to the same process

Question 5

Correct

Mark 1.00 out of 1.00

Is the deadlock in the following resource allocation?



Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 6

Correct

Mark 1.00 out of 1.00

Context Switching is relatively faster in among_____

- ☐ a. Process
- ☒ b. threads ✓

The correct answer is: threads

Question 7

Correct

Mark 1.00 out of 1.00

Which one of the following is/are not shared by different threads of same process?

- ☐ a. Code
- ☐ b. Data
- ☐ c. Stack
- ☒ d. program Counter ✓

The correct answer is: program Counter

Question 8

Correct

Mark 1.00 out of 1.00

Which of the following are the advantages of concurrency?

- ☒ a. Better resource utilization & performance ✓
- ☐ b. Responsive Applications
- ☐ c. Multi-threaded programs are easy to develop than single thread programs

The correct answer is: Better resource utilization & performance

Question 9

Correct

Mark 1.00 out of 1.00

Which of the following are necessary conditions for deadlocks to happen in a sysytem?

- ☐ a. A process can hold multiple resources and can still request many
- ☐ b. A resource can be acquired by a process by force
- ☒ c. A process can only release a resource Voluntarily ✓

The correct answer is: A process can only release a resource Voluntarily

Question 10

Correct

Mark 1.00 out of 1.00

Which of the following browser will start a new process by opening a new tab

- ☐ a. Mozilla Firefox
- ☒ b. Google Chrome ✓

The correct answer is: Google Chrome

Question 11

Correct

Mark 1.00 out of 1.00

Is there a deadlock in the following resource allocation?

- ☒ a. No ✓
- ☐ b. Yes

The correct answer is: No

Question 12

Correct

Mark 1.00 out of 1.00

A thread can also called as

- ☒ a. Light Weight Process(LWP) ✓
- ☐ b. Heavy Weight Process(HWP)

The correct answer is: Light Weight Process(LWP)

Question 13

Correct

Mark 1.00 out of 1.00

In Multi-threaded Process, each thread will have its own

- ☐ a. Data
- ☐ b. Register
- ☒ c. Stack ✓
- ☐ d. Files

The correct answer is: Stack

Question 14

Correct

Mark 1.00 out of 1.00

The time required to create a new thread in an existing process is usually_____

- ☐ a. Greater than the time required to create a new process?
- ☒ b. Less than the time required to create a new process. ✓
- ☐ c. Equal to the time required to create a new process.

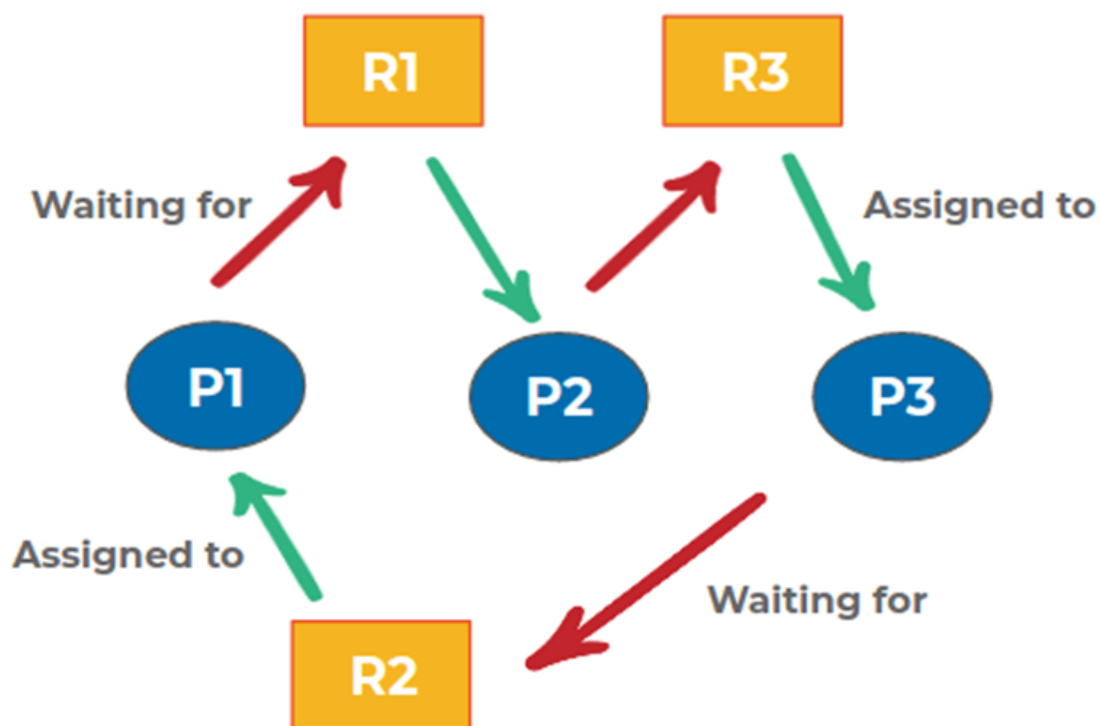
The correct answer is: Less than the time required to create a new process.

Question 15

Correct

Mark 1.00 out of 1.00

Is the deadlock in the following resource allocation?



Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

