Return to Assessment List

Part 1 of 2 40/40Points

Question 1 of 5	1.0
Quescion 1 of 5	1.0
	e medium certain process data is stored on does not influence process speed
✓ True False	
() raise	
Answer Key:	False
Question 2 of 5	1.0
1	
Main memor	y is an example of Nonvolatile storage (NVS)
OTrue	
✓	
Answer Key:	Fele
Answer key.	raise
1	
Question 3 of 5	10
Question 3 of 5	1.0
Windows has	s been used as a desktop operating system only
OTrue	
● False	
Answer Key:	False
Question 4 of 5	1.0
1	
A process is	by definition, a program in execution
● True	
✓ ○ False	
O False	
Answer Key:	True
I,	
art 2 of 2 1.0/1.0	Points

Pa

Question 5 of 5 1.0 If an application fails, the operating system can sometimes generate a \checkmark \circledcirc A. Core dump B. Application dump C. Crash dump O. File-system dump Answer Key: A

Quiz 2 Return to Assessment List Part 1 of 3 (1.0/1.0 Points) Question 1 of 5 1.0 1.0 Point An area of memory containing process information such as process state, CPU registers, I/O status information, etc. is known as a A. Process Status File O B. CPU Registry C. CPU Control Block Answer Key: D Part 2 of 3 1.0/1.0 Points Question 2 of 5 1.0 1.0 Point A context switch consumes CPU time ▼ ® True Answer Key: True Part 3 of 3 3.0/3.0 Points Question 3 of 5 1.0 1.0 Point A parent process must wait for its child processes to finish before it can execute instructions. ✓ ○ True ⑥ False Answer Key: False Question 4 of 5 1.0 1.0 Point If a program declares a variable before a fork(), the child and the parent can communicate with one another using that variable. ○ True ✓ ⑥ False Answer Key: False Question 5 of 5 1.0 1.0 Point A parent and child process always share the same block of memory Answer Key: False

Quiz 3

Return to Assessment List

Part 1 of 2 20/20Points

Question 1 of 5	1.0
Message pas	sing is typically faster than shared memory.
OTrue	
False	
Answer Key:	False
Question 2 of 5	1.0
r e	
Which of the	following is a reason why two processes may want to cooperate
O A. Sp	eed
✓ (a) B. All	of these
000	onve nie nce
O D. Sh	aring Information
Answer Key:	B
Answer Key:	В
Answer Key:	В
Answer Key:	
rt 2 of 2 20/3. 0) Points
rt 2 of 2 20/3. 0) Points
rt 2 of 2 20/3.0	0.0
Question 3 of 5) Points
Question 3 of 5 Unlike forkin	0.0
Question 3 of 5 Unlike forkin	0.0
Question 3 of 5 Unlike forkin True Representation 1 of 5	0.0 g, if the "parent" thread of a multithreaded process exits, all of its "child" threads will also exit.
Question 3 of 5 Unlike forkin True Answer Key:	0.0 g, if the "parent" thread of a multithreaded process exits, all of its "child" threads will also exit.
Unlike forkin True Read False Answer Key: Feedback:	0.0 g, if the "parent" thread of a multithreaded process exits, all of its "child" threads will also exit. True
Unlike forkin True Read False Answer Key: Feedback:	0.0 g, if the "parent" thread of a multithreaded process exits, all of its "child" threads will also exit.
Unlike forkin True Read False Answer Key: Feedback:	0.0 g, if the "parent" thread of a multithreaded process exits, all of its "child" threads will also exit. True
Unlike forkin True Read False Answer Key: Feedback:	0.0 g, if the "parent" thread of a multithreaded process exits, all of its "child" threads will also exit. True
Unlike forkin True Answer Key: Feedback: We use pthr	O.0 g. if the "parent" thread of a multithreaded process exits, all of its "child" threads will also exit. True "ead_join() to ensure any "child" threads are not unexpectedly "cutoff"
Unlike forkin True Answer Key: Feedback: We use pthr	O.0 g. if the "parent" thread of a multithreaded process exits, all of its "child" threads will also exit. True "ead_join() to ensure any "child" threads are not unexpectedly "cutoff"
Question 3 of 5 Unlike forkin	0.0 g, if the "parent" thread of a multithreaded process exits, all of its "child" threads will also exit. True "ead_join() to ensure any "child" threads are not unexpectedly "cutoff"
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Question 3 of 5 Unlike forkin	0.0 g, if the "parent" thread of a multithreaded process exits, all of its "child" threads will also exit. True read_join() to ensure any "child" threads are not unexpectedly "cutoff" 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.

In a one-to-one multithreading model, the developer can use only single-threading.



Question 5 of 5 1.0

Answer Key: False

Quiz 4

Q	Question 1 of 5 0.0	
		1.0 Points
	Context switching is managed by the A. Dispatcher	
	○ B. Switcher	
	○ C.CPU	
	★	
	Answer Key: A	

Par

🗶 🍥 D. Scheduler	
Answer Key: A	
art 2 of 2 3.0/4.0 Points	
Question 2 of 5 1.0	
1.0 Points	
Consider the following processes in the ready queue in the following order with the following CPU burst times	
Process	Burst time (milliseconds)
P1	15
P2	2
P3	3
Match the following scheduling algorithms with the following order of processes	
A. P2, P3, P1 B. P3, P2, P1	
C. P1, P2, P3 D. P1, P2, P3, P1	
✓ C ▼ 1. FCFS	
✓ A ✓ 2. SJF	
 ✓ B	
✓ D ▼ 4. RR (Quantum 10)	
Answer Key: 1:C, 2:A, 3:B, 4:D	
Question 3 of 5 0.0	
1.0 Points	
In Round-Robin CPU scheduling, if there are 10 processes in the ready queue and the time quantum is 3ms, then no process waits more than	
A. 27ms	
★	
○ C. 20ms	
○ D. None of the se	
Answer Key: A	
Question 4 of 5 1.0	
1.0 Points	
With a Multilevel Feedback Queue scheduling algorithm, once the scheduler has placed the process in a queue, it could be moved to a different queue later True	
False	
Answer Key: True	
Question 5 of 5 1.0	
1.0 Points	
One drawback to Priority scheduling is	
A. Longer average waiting time compared to most other scheduling algorithms	
■ B. The potential for starvation □ G. All of the re-	
C. All of the se	
O. Process priority cannot change	

Answer Key: B

Quiz 5

Return to Assessment List

Part 1 of 2 1.0/1.0 Points

Question 1 of 5	1.0	
		1.0 Points

To select a process to run in a multiprocessor architecture, the scheduler will assign processes to a core from a

• a A. Either a common or a private ready queue is possible

B. Common ready queue

O C. Private ready queue

Answer Key: A

Part 2 of 2 3.0/40 Points

Question 2 of 5 0.0 1.0 Points

Which of the following is not a necessary criterion for a solution to the critical section problem.

- A. All processes with a critical section must employ mutual exclusion.
- 🗶 . B. If the shared resources is available for use, any process that wants to use it can secure the resource and enter its critical section.
 - C. A process may not prevent other processes from ever entering their critical section.
 - O. All processes that wish to use a shared resource must have an equal chance of obtaining the shared resource.

Answer Key: D

Feedback: Fairness is not a guarantee. Some processes may just have higher priority to a resource than others and therefore are more likely to obtain the shared resource.

Question 3 of 5 1.0 1.0 Points

Peterson's solution is a common strategy employed by modern operating systems to solve the critical section problem.

Answer Key: False

Question 4 of 5 1.0 1.0 Points

A semaphore can be implemented as a mutex lock



Answer Key: False

Question 5 of 5 1.0 1.0 Points

A common approach used by most modern operating systems to manage process synchronization is to temporarily disable interrupts.



Answer Key: False

