## Part 1 of 2 (4.0 / 4.0 Points)

Question 1 of 5  1.0  1.0 Points  Managing what is in memory and when is the responsibility of the running process
Managing what is in memory and when is the responsibility of the running process
True  ■ False  Answer Key: False  Question 2 of 5 1.0  1.0 Points  Which of the following is not a factor to consider when deciding which storage medium to use  A. Volatility  B. Cost  C. Speed  ■ D. Weight  Answer Key: D  Question 3 of 5 1.0  1.0 Points  To prevent a process from running too long, the operating system uses a to limit CPU time  A. DMA  B. Switch  C. Cache  ■ D. Timer  Answer Key: D
Question 2 of 5  1.0  1.0 Points  Which of the following is not a factor to consider when deciding which storage medium to use  A. Volatility B. Cost C. Speed  ■ D. Weight  Answer Key: D  Question 3 of 5  1.0  1.0 Points  To prevent a process from running too long, the operating system uses a to limit CPU time A. DMA B. Switch C. Cache  ■ D. Timer  Answer Key: D
## To prevent a process from running too long, the operating system uses a to limit CPU time
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<ul> <li>A. Volatility</li> <li>B. Cost</li> <li>C. Speed</li> <li>✓  D. Weight</li> </ul> Answer Key: D 1.0 Points To prevent a process from running too long, the operating system uses a to limit CPU time <ul> <li>A. DMA</li> <li>B. Switch</li> <li>C. Cache</li> <li>✓  D. Timer</li> </ul> Answer Key: D Question 4 of 5 1.0
Question 3 of 5  1.0 Points  To prevent a process from running too long, the operating system uses a to limit CPU time A. DMA B. Switch C. Cache  OD. Timer  Answer Key: D  Question 4 of 5  1.0
To prevent a process from running too long, the operating system uses a to limit CPU time  A. DMA  B. Switch  C. Cache  ✓  D. Timer   Question 4 of 5  1.0
To prevent a process from running too long, the operating system uses a to limit CPU time  A. DMA  B. Switch  C. Cache  ✓  D. Timer   Question 4 of 5  1.0
To prevent a process from running too long, the operating system uses a to limit CPU time  A. DMA  B. Switch  C. Cache  D. Timer  Answer Key: D
<ul> <li>A. DMA</li> <li>B. Switch</li> <li>C. Cache</li> <li>✓</li></ul>
Main memory is an example of Nonvolatile storage (NVS)  ☐ True  ☐ False
Answer Key: False
art 2 of 2 1.0 / 1.0 Points
Question 5 of 5 1.0
1.0 Points
1.0 Points  Which of the following is not a service commonly provided by an operating system?  A. Process communication

Answer Key: D

O. Error detection

Answer Key: False

#### Part 1 of 2 (2.0 / 2.0 Points)

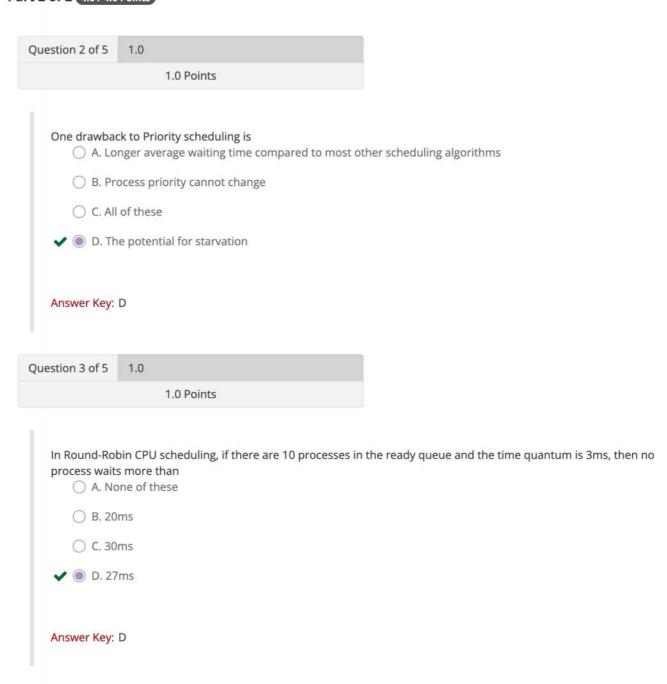
Question 1 of 5	1.0
	1.0 Points
Which of the	following is a reason why two processes may want to cooperate
○ A. Sp	eed
○ B. Co	nvenience
○ C. Sh	aring Information
✓ ⊚ D. All	of these
Answer Key:	D
Question 2 of 5	1.0 Points
	1.0 Points
When two pr buffer.	ocesses communicate using an unbounded buffer, the producer may need to wait before wr
✓ True      False	
False	
Answer Key:	False
,	
2 - 6 2	
2 of 2 (3.0 / 3.0	Points
Question 3 of 5	1.0
(descion s or s	
	1.0 Points
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The greater t	
	1.0 Points
✓ True ✓ ⑥ False	1.0 Points  he serial portion of a task, the greater the expected performance gains by adding parallelism
○ True	1.0 Points  he serial portion of a task, the greater the expected performance gains by adding parallelism
✓ True ✓ ⑥ False	1.0 Points  he serial portion of a task, the greater the expected performance gains by adding parallelism
✓ True ✓ ⑥ False	1.0 Points  he serial portion of a task, the greater the expected performance gains by adding parallelism
<ul><li> True</li><li></li></ul>	1.0 Points  he serial portion of a task, the greater the expected performance gains by adding parallelism  False
<ul><li> True</li><li></li></ul>	1.0 Points  the serial portion of a task, the greater the expected performance gains by adding parallelism.  False
True False  Answer Key:  Question 4 of 5	1.0 Points  the serial portion of a task, the greater the expected performance gains by adding parallelism.  False  1.0  1.0 Points  ogram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallel.
True False  Answer Key:	1.0 Points  the serial portion of a task, the greater the expected performance gains by adding parallelism  False  1.0  1.0 Points  Togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallel.
True False  Answer Key:  Question 4 of 5  Suppose a prigain by addir	1.0 Points  the serial portion of a task, the greater the expected performance gains by adding parallelism.  False  1.0  1.0 Points  Togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance.
True False  Answer Key:  Question 4 of 5  Suppose a prigain by addir  A. 15  B. 3.3	1.0 Points  the serial portion of a task, the greater the expected performance gains by adding parallelism.  False  1.0  1.0 Points  Togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallel.
True False  Answer Key:  Question 4 of 5  Suppose a prigain by addir A. 15 B. 3.3  C. 6.4	1.0 Points  the serial portion of a task, the greater the expected performance gains by adding parallelism.  False  1.0  1.0 Points  Togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallel.
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True False  Answer Key:  Question 4 of 5  Suppose a prigain by addir A. 15 B. 3.3  C. 6.4	1.0 Points  the serial portion of a task, the greater the expected performance gains by adding parallelism  False  1.0  1.0 Points  togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism  togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism  togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism  togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism  togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism  togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism  togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism  togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism  togram can run 10% serial and 90% parallelism gains gain
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True False  Answer Key:  Question 4 of 5  Suppose a prigain by addir A. 15 B. 3.3  C. 6.4  D. 12  Answer Key:	1.0 Points  The serial portion of a task, the greater the expected performance gains by adding parallelism and the serial portion of a task, the greater the expected performance gains by adding parallelism and 1.0 Points  1.0 Points  Togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism and 1.0 Points  Togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism and 1.0 Points  Togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism and 1.0 Points  Togram can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism and 1.0 Points
True False  Answer Key:  Question 4 of 5  Suppose a prigain by addir A. 15 B. 3.3  C. 6.4  D. 12  Answer Key:	1.0 Points  Talse  1.0 Points  1.0 Points  Organ can run 10% serial and 90% parallel. Using Amdahl's Law, calculate the expected performance gains by adding parallelism paral
Answer Key:  Suppose a prigain by addir A. 15 B. 3.3 C. 6.4 D. 12  Answer Key:	1.0 Points
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Answer Key:  Suppose a prigain by addir A. 15 B. 3.3 C. 6.4 D. 12  Answer Key:	1.0 Points
Answer Key:  Suppose a prigain by addir A. 15 B. 3.3 C. 6.4 D. 12  Answer Key:  Question 5 of 5  Which of the A. Th B. CP	1.0 Points

Answer Key: B

# Part 1 of 2 (1.0 / 1.0 Points)

Question 1 of 5	1.0
	1.0 Points
	mptive scheduling scheme, the next process to run is e next process in the queue
○ B. Th	e process in the queue with the highest priority
○ C. A r	randomly selected process
O D. Th	e process in the queue with the shortest run time
Answer Key:	A

## Part 2 of 2 (4.0 / 4.0 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. P1, P2, P3 B. P3, P2, P1 C. P2, P3, P1 D. P1, P2, P3, P1

Question 4 of 5 1.0

Answer Key: 1:A, 2:C, 3:B, 4:D



1.0 Points

In Multilevel queue scheduling, which of the following is not true?

✓ 

A. Processes can move between the queues

□ B. Starvation is possible

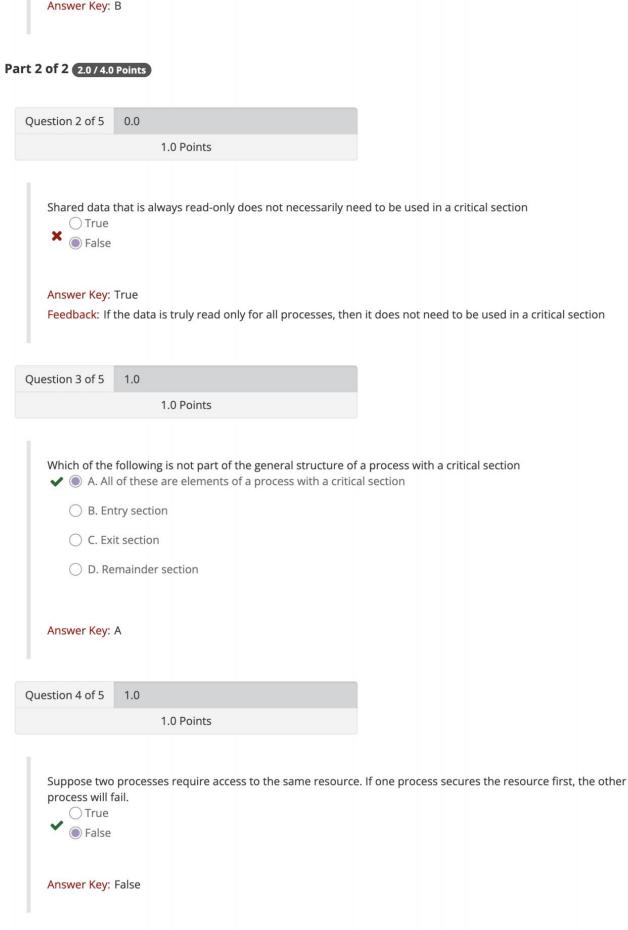
□ C. Each queue is assigned a priority level

□ D. Different queues can use different scheduling algorithms

Answer Key: A

### Part 1 of 2 (1.0 / 1.0 Points)

Question 1 of 5	1.0
	1.0 Points
	asks across multicores, an operating system may employ which strategy? riodically check for cores with too many tasks and push some of those tasks to other cores
✔ ⑥ B. Eit	her strategy could be used
○ C. Pe	riodically check for cores that have too few tasks and pull some tasks from other cores
Answer Key:	В



Mutex locks and semaphores are identical concepts. Programmers choose one or the other as a matter of style.



Question 5 of 5

0.0

1.0 Points

Answer Key: False