Started on	Monday, 27 February 2023, 11:10 AM
State	Finished
Completed on	Monday, 27 February 2023, 11:16 AM
Time taken	5 mins 59 secs
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

Invoking periodically to test for deadlock is one of the way for deadlock _____

Select one:

○ a. Deletion

○ b. Avoidance

○ c. Detection   ChatGPT answer

◉ d. Prevention ✔

Your answer is correct.

The correct answer is: Prevention

Question **2**

Correct

Mark 1.00 out of 1.00

What is the disadvantage of invoking the detection algorithm for every request?

Select one:

○ a.
   excessive time consumed in the request to be allocated memory

○ b.
   all of the mentioned

○ c.
   overhead of the detection algorithm due to consumption of memory

◉ d.
   considerable overhead in computation time ✔

Your answer is correct.

The correct answer is:
 considerable overhead in computation time

Question **3**

Correct

Mark 1.00 out of 1.00

A deadlock eventually cripples system throughput and will cause the CPU utilization to _____

Select one:

◉ a. drop ✔

○ b. increase

○ c. stay still

○ d. none of the mentioned

Your answer is correct.

The correct answer is: drop

Question 4

Correct

Mark 1.00 out of 1.00

If the wait for graph contains a cycle _____

Select one:

○ a. then the system is in a safe state

○ b. then a deadlock does not exist

○ c. either deadlock exists or system is in a safe state

◉ d. then a deadlock exists ✔

Your answer is correct.

The correct answer is: then a deadlock exists

Question 5

Correct

Mark 1.00 out of 1.00

Every time a request for allocation cannot be granted immediately, the detection algorithm is invoked. This will help identify _____

Select one:

○ a.
the specific process that caused the deadlock

○ b.
all of the mentioned

○ c.
the set of processes in the deadlock queue

◉ d.
the set of processes that have been deadlocked ✔

Your answer is correct.

The correct answer is:
the set of processes that have been deadlocked
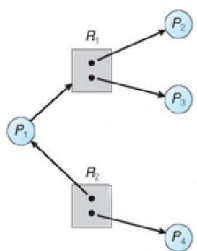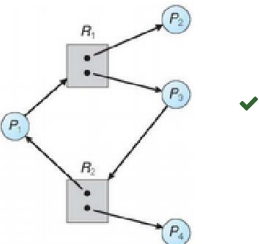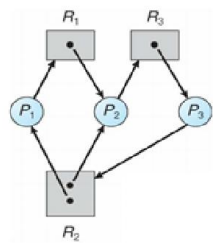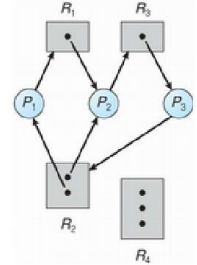
Question **6**

Correct

Mark 1.00 out of 1.00

Which of the following graphs is correct regarding the following statement?

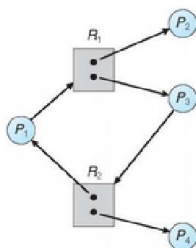'Graph With A Cycle But No Deadlock'

Select one:

○ a.

◉ b.

    ✔

○ c.

○ d.

Your answer is correct.

The correct answer is:

Question 7

Correct

Mark 1.00 out of 1.00

In Deadlock Prevention Scheme, To ensure that the hold-and-wait condition never occurs in the system if:

Select one:
- ○ a. All of the above
- ○ b. At least one resource must be non-sharable
- ○ c. At least one resource must be shareable
- ◉ d. Whenever a process requests a resource, it does not hold any other resources ✔

Your answer is correct.

The correct answer is: Whenever a process requests a resource, it does not hold any other resources

Question 8

Correct

Mark 1.00 out of 1.00

An edge from process Pi to Pj in a wait for graph indicates that _____

Select one:
- ○ a. Pj is waiting for Pi to leave the system
- ○ b. Pj is waiting for Pi to release a resource that Pj needs
- ◉ c. Pi is waiting for Pj to release a resource that Pi needs ✔
- ○ d. Pi is waiting for Pj to leave the system

Your answer is correct.

The correct answer is: Pi is waiting for Pj to release a resource that Pi needs

Question 9

Correct

Mark 1.00 out of 1.00

For deadlock prevention which of the following conditions stand TRUE ?

A. The mutual exclusion condition must hold

B. Hold-and-wait condition never occurs in the system

C. No preemption condition does not hold

D. Circular wait condition never holds

Select one:
- ○ a. A
- ○ b. A,B and C
- ◉ c. All A,B,C and D ✔
- ○ d. A and B

Your answer is correct.

The correct answer is: All A,B,C and D

The request and release of resources may be system calls. Which one out of the following is/are true examples of such?

A. request() and release() device

B. open() and close() file

C. allocate() and free() memory system calls

Select one:

○ a. **Both A and B**

○ b. **Both A and C**

○ c. **Only A**

◉ d. **All A, B, C** ✔

Your answer is correct.

The correct answer is: **All A, B, C**

Jump to...

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C. allocate() and free() memory system calls