Started on	Monday, 27 February 2023, 10:30 AM
State	Finished
Completed on	Monday, 27 February 2023, 10:50 AM
Time taken	19 mins 41 secs
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

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. Pi is waiting for Pj to release a resource that Pi needs ✔
- b. Pi is waiting for Pj to leave the system
- c. Pj is waiting for Pi to release a resource that Pj needs
- d. Pj is waiting for Pi 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 **2**

Correct

Mark 1.00 out of 1.00

The number of resources requested by a process _____

Select one:

- a. must always be less than the total number of resources available in the system
- b. must always be equal to the total number of resources available in the system
- c. must not exceed the total number of resources available in the system ✔
- d. must exceed the total number of resources available in the system

Your answer is correct.

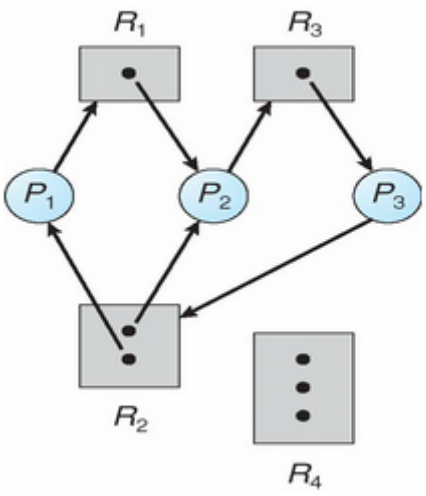
The correct answer is: must not exceed the total number of resources available in the system

Question **3**

Correct

Mark 1.00 out of 1.00

Which one/s of the following is/are false about the Process States of the given below Resource Allocation Graph with a deadlock.



A. Processes P1 and P3 are deadlocked.
B. Process P2 is waiting for the resource R3, which is held by process P1.
C. Process P3 is waiting for either process P1 or process P2 to release resource R2.
D. Process P1 is waiting for process P2 to release resource R1.

Select one:

- a. Only A
- b. All A, B, C and D
- c. Both C and D
- d. Both A and B ✔

Your answer is correct.

The correct answer is: Both A and B

Question **4**

Correct

Mark 1.00 out of 1.00

If the wait for graph contains a cycle _____

Select one:

- a. either deadlock exists or system is in a safe state
- b. then a deadlock does not exist
- c. then a deadlock exists ✔
- d. then the system is in a safe state

Your answer is correct.

The correct answer is: then a deadlock exists

Question **5**

Correct

Mark 1.00 out of 1.00

With deadlock detection, requested resources are granted to

Select one:

- a. Resources
- b. Programs
- c. Users
- d. Processes ✔

Your answer is correct.

The correct answer is: Processes

Question **6**

Correct

Mark 1.00 out of 1.00

m' processes share 'n' resources of the same type. The maximum need of each process doesn't exceed 'n' and the sum of all their maximum needs is always less than m+n. In this setup, deadlock _____

Select one:

- a. none of the mentioned
- b. can never occur ✔
- c. may occur
- d. has to occur

Your answer is correct.

The correct answer is: can never occur

Question **7**

Correct

Mark 1.00 out of 1.00

For a Hold and wait condition to prevail _____

Select one:

- a. A process must be holding at least one resource and waiting to acquire additional resources that are being held by other processes ✔
- b. A process must hold at least one resource and not be waiting to acquire additional resources
- c. None of these
- d. A process must be not be holding a resource, but waiting for one to be freed, and then request to acquire it.

Your answer is correct.

The correct answer is: A process must be holding at least one resource and waiting to acquire additional resources that are being held by other processes

Question **8**

Correct

Mark 1.00 out of 1.00

If deadlocks occur frequently, the detection algorithm must be invoked _____

Select one:

- a. none of the mentioned
- b. rarely & frequently
- c. rarely
- d. frequently ✔

Your answer is correct.

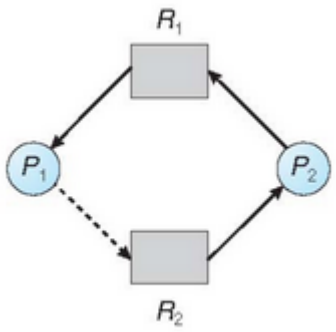
The correct answer is: frequently

Question **9**

Correct

Mark 1.00 out of 1.00

What is the correct statement regarding the following graph?



Select one:

- a. Resource-Allocation Graph
- b. Safe State In Resource-Allocation Graph
- c. Unsafe State In Resource-Allocation Graph ✔
- d. Resource Allocation Graph With A Deadlock

Your answer is correct.

The correct answer is: Unsafe State In Resource-Allocation Graph

Question **10**

Correct

Mark 1.00 out of 1.00

Which one/s of the following is/are false about Deadlock conditions given?
A. No preemption: a resource can be released only voluntarily by the process holding it, after that process has completed its task
B. Mutual exclusion: a process holding at least one resource is waiting to acquire additional resources held by other processes
C. Hold and wait: only one process at a time can use a resource and wait to acquire additional resources that are currently being held by other processes.

Select one:

- a. None of the above
- b. Only B
- c. Only A
- d. Both B and C ✔

Your answer is correct.

The correct answer is: Both B and C

◄ Assignment 09 - Quiz

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Lecture 8 ►