



Virtual University

CS604 Operating System Update MCQS For Quiz-3 File Solve By Vu Topper RM



80 To 100% Marks



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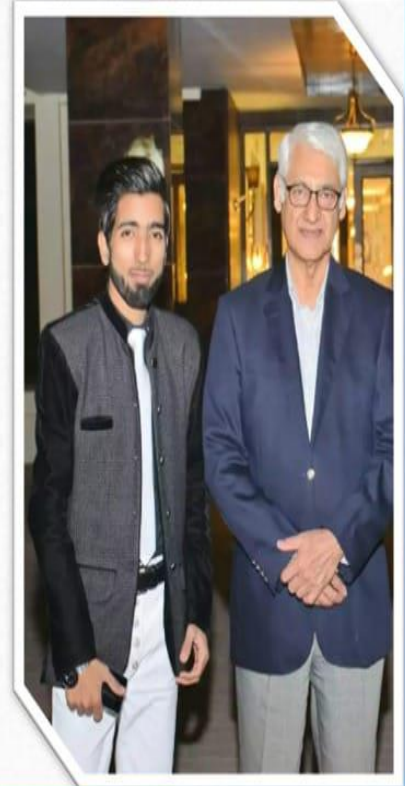
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Possible side effects of _____ deadlocks are low device utilization and reduced system throughput.

- A. Ignoring
- B. Avoiding
- C. Recovering
- D. Preventing**

Which of the following is correct definition for wait operation?

- A. wait(S) { while(S<=0); // no o S--; Page 108**
- B. wait(S) { S++; }
- C. wait(S) { while(S>=0) ; // no op S--; }
- D. wait(S) { S--; }

The -----scheme is not applicable to a resource allocation system with multiple instances of each resource type.

- A. Wait for graph Page 145**
- B. None of the given options
- C. Resource allocation graph
- D. Both Resource-allocation and wait-for graph

Semaphores are used to synchronize _____ processes.

- A. Tough
- B. Parallel
- C. Running
- D. Concurrent**

Following is not the classical problem of synchronization.

- A. Bounded buffer problem
- B. Reader writer problem
- C. Dining philosophers problem
- D. Counting Semaphore problem Page 118**

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In Resource Allocation Graph, a _____ $P_i \rightarrow R_j$ indicates that process P_i may request resource R_j at some time in the future.

A. Claim edge **Page 138**

B. Request edge

C. Allocation edge

D. Assignment edge

_____ is used in the detection and recovery mechanism to handle deadlocks.

A. Circular Graph

B. Wait-for Graph **Page 144**

C. Claim Edge Graph

D. Resource allocation Graph

Typically monitor, a high level synchronization tool is characterized by _____ and _____.

A. Signal, wait

B. Local variables, semaphores

C. Global variable, local variable

D. Local data, programmer defined operators **Page 125**

In order to remove the problem like busy waiting, some high level synchronization constructs are defined. What are they?

Critical regions and Monitors **Page 124**

Critical regions and Semaphores

The integer value of _____ semaphores can not be greater than 1.

A. Mutex

B. Binary **Page 117**

C. Counting

D. Bounded buffer

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Banker's algorithm is used for _____

- A. Deadlock removal
- B. Deadlock detection
- C. Deadlock prevention

D. Deadlock avoidance **Page 140**

_____ is an integer variable accessible through wait and signal which are atomic operations.

- A. Signal
- B. Mutex

C. Semaphore **Page 111**

D. Busy waiting

The _____ requires that once a writer is ready, that writer performs its write as soon as possible. In other words, if a writer is waiting to access the object, no new readers may start reading.

- A. first readers-writers problem
- B. third readers-writers problem
- C. fourth readers-writers problem

D. second readers-writers problem **Page 116**

A state is _____ if the system can allocate resources for each process in some order and still avoid a deadlock.

A. Safe **Page 134**

- B. Unsafe
- C. Mutual
- D. Starvation

_____ algorithm is used in Deadlock avoidance.

A. Bakery

B. Banker's **Page 139**

- C. Safe Sequence
- D. Mutual exclusion

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Binary semaphore whose integer value cannot be can be _____ simpler to implement.

- A. >1** **Page 114**
- B. <1
- C. <=1
- D. >=1

Deadlock _____ provides a set of methods for ensuring that at least one of the necessary conditions cannot hold.

- A. Handling
- B. Avoidance
- C. Recovery
- D. Prevention** **Page 132**

The condition in which a set $\{P_0, P_1 \dots P_n\}$ of waiting processes must exist such that P_0 is waiting for a resource that is held by P_1 , P_1 is waiting for a resource that is held by P_2 , and so on, P_{n-1} is waiting for a resource held by P_n , and P_n is waiting for a resource held by P_0 . This condition is known as _____.

- A. Circular wait** **Page 131**
- B. Hold and wait
- C. No preemption
- D. Mutual exclusion

The problem of Deadlocks can be solved by _____ method(s).

- A. All of the given** **Page 132**
- B. Deadlock avoidance
- C. Deadlock prevention
- D. Allowing deadlock to occur, then detect and recover

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The integer value of _____ semaphores can range over an unrestricted integer domain.

- A. Mutex
- B. Binary
- C. Counting**
- D. Bounded buffer

Page 117

If the system can allocate resources to each process in some order and still avoid a deadlock then it is said to be in _____ state.

- A. Safe**
- B. Mutual
- C. Un-Safe
- D. Starvation

Page 134

Wrong use of wait and signal operations (in context with semaphores) can cause _____ problem(s).

- A. Deadlock
- B. Mutual Exclusion
- C. Bounded Waiting
- D. All of the given options are correct**

Deadlock can be deal with _____ ways.

- A. 1
- B. 2
- C. 3**
- D. 4

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The condition where a set of blocked processes each holding a resource and waiting to acquire a resource held by another process in the set, is termed as _____.

Deadlock
Starvation

Page 130

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If a system is not in a safe state, there can be NO deadlocks.

False Page 137

True

Deadlock detection and recovery technique is exactly similar to deadlock avoidance technique to handle deadlock in the system.

True

False

A dashed line is used to represent a _____ in Resource Allocation Graph.

A. Claim edge Page 136

B. Request edge

C. Allocation edge

D. Assignment edge

Removing the possibility of deadlock in dining philosopher problem does not ensure the _____ problem will not occur.

A. Starvation Page 123

B. Critical Section

C. Bounded Buffer

D. Mutual Exclusion

In deadlock detection and recovery algorithm, a deadlock exists in the system if and only if the wait for graph contains a _____.

A. Node

B. Edge

C. Cycle Page 147

D. Graph

The process of holding at least one resource and waiting to acquire additional resources that are currently being held by other processes is known as _____.

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A. Circular wait

B. Hold and wait **Page 131**

C. No preemption

D. Mutual exclusion

Memory protection in paging is achieved by associating _____ with each page. This bit indicates whether the page is in the process address space or not.

Protection bits **Page 169**

_____ consists of a large array of words or bytes, each with its own address.

Memory **Page 150**

Logical memory is divided into blocks of the same size, called.....

Pages **Page 162**

Variable names are ----- addresses.

Relocatable **Google**

_____ is constrained by factors like quantum for RR scheduler and pending I/O for swapped out process.

Swapping **Page 157**

The system maintains a _____ of all processes whose memory images are on the backing store or in memory and are ready to run.

Ready queue **Page 157**

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