

VIRTUAL UNIVERSITY OF PAKISTAN

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CORRECT ANSWER SOLVED BY HADI
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(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question # 2 of 10 (Start time: 01:18:28 AM, 11 February 2021)

Total Marks: 1

Following are the advantages of Virtual memory EXCEPT

Select the correct option

- | | | |
|----------------------------------|--------------------------------|----|
| <input type="radio"/> | Efficient process creation | // |
| <input type="radio"/> | Concept of memory mapped files | // |
| <input checked="" type="radio"/> | Low CPU consumption | |
| <input type="radio"/> | Running large sized processes | |

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Question # 6 of 10 (Start time: 01:22:45 AM, 11 February 2021)

Total Marks: 1

In pages segmentation, the logical address is legal if d is _____ segment length.

Select the correct option

<input checked="" type="radio"/>	Less than	//
<input type="radio"/>	Greater than	//
<input type="radio"/>	Equal to	//
<input type="radio"/>	Greater than or equal to	//

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Question # 4 of 10 (Start time: 01:21:11 AM, 11 February 2021)

Total Marks: 1

_____ is the separation of user logical memory from physical memory.

Select the correct option

- | | | |
|----------------------------------|---------------------------|----|
| <input type="radio"/> | ROM | // |
| <input type="radio"/> | Physical memory | // |
| <input checked="" type="radio"/> | Virtual Memory | // |
| <input type="radio"/> | None of the given options | // |

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Question # 7 of 10 (Start time: 01:23:33 AM, 11 February 2021)

Total Marks: 1

The address generated by the CPU, after any indexing or other addressing-mode arithmetic, is called a -----address, and the address it gets translated to by the MMU is called a -----address.

Select the correct option

<input type="radio"/>	Virtual, physical	//
<input type="radio"/>	Hexadecimal, Binary	//
<input type="radio"/>	Valid, invalid	//
<input checked="" type="radio"/>	Physical, Virtual	//

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Question # 9 of 10 (Start time: 01:25:33 AM, 11 February 2021)

Total Marks: 1

To eliminate external fragmentation in segmentation the scheme used is _____.

Select the correct option

<input checked="" type="radio"/>	Fixed size partition scheme	//
<input type="radio"/>	Variable size partition scheme	//
<input type="radio"/>	Fixed size paging scheme	//
<input type="radio"/>	Variable size paging scheme	//

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Question # 5 of 10 (Start time: 01:21:53 AM, 11 February 2021)

Total Marks: 1

Following schemes allow efficient implementations of page tables EXCEPT

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Select the correct option

<input type="radio"/>	Hashed Page Table	//
<input type="radio"/>	Hierarchical / Multilevel Paging	//
<input type="radio"/>	Inverted Page Table	//
<input checked="" type="radio"/>	Binary Page Table	

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Question # 2 of 10 (Start time: 09:53:39 AM, 05 August 2020)

Total Marks: 1

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

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Select the correct option

True



False



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Question # 3 of 10 (Start time: 09:54:44 AM, 05 August 2020)

Total Marks: 1

The set of all physical addresses corresponding to the logical addresses is a ----- of the process

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Select the correct option

- Logical address space
- Process address space
- Physical address space
- None of the given options

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Question # 4 of 10 (Start time: 09:55:50 AM, 05 August 2020)

Total Marks: 1

.....is the process of mapping a name to an address.

Select the correct option

- | | |
|----------------------------------|------------|
| <input type="radio"/> | Addressing |
| <input checked="" type="radio"/> | Binding |
| <input type="radio"/> | Routing |
| <input type="radio"/> | Memory |

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Question # 5 of 10 (Start time: 09:57:13 AM, 05 August 2020)

Total Marks: 1

Deadlock can be deal with _____ ways.

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Select the correct option

- 2
- 3
- 4
- 6

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Question # 6 of 10 (Start time: 09:58:26 AM, 05 August 2020)

Total Marks: 1

Preventing the condition of _____ to happen, deadlocks can be prevented to happen.

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Select the correct option

- Critical region
- Circular wait
- Monitors
- Critical section

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Question # 7 of 10 (Start time: 09:59:49 AM, 05 August 2020)

Total Marks: 1

Which of the following is correct definition for wait operation?

Select the correct option

- ```
wait(S) {
while(S>=0)
:// no op
```
- ```
wait(S) {  
S--;  
}
```
- ```
wait(S) {
S++;
}
```
- ```
wait(S) {  
while(S<=0)  
:// no op
```

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Question # 8 of 10 (Start time: 10:01:09 AM, 05 August 2020)

Total Marks: 1

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

Select the correct option

- | | | |
|----------------------------------|---------------------------|----|
| <input checked="" type="radio"/> | Wait-for Graph | // |
| <input type="radio"/> | Resource allocation Graph | // |
| <input type="radio"/> | Circular Graph | // |
| <input type="radio"/> | Claim Edge Graph | // |

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Question # 9 of 10 (Start time: 10:02:26 AM, 05 August 2020)

Total Marks: 1

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.

Select the correct option

- first readers-writers problem
- second readers-writers problem
- third readers-writers problem
- fourth readers-writers problem

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Question # 10 of 10 (Start time: 10:03:30 AM, 05 August 2020)

Total Marks: 1

Secondary Storage memory devices have _____ memory.

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Select the correct option

- Volatile
- Permanent and non volatile
- Temporary
- None of the options is correct

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Question # 6 of 10 (Start time: 12:00:50 PM, 05 August 2020)

Total Marks: 1

Main Memory is _____ memory.

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Select the correct option

- Volatile
- Non-volatile
- Permanent
- Virtual

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Question # 7 of 10 (Start time: 12:01:59 PM, 05 August 2020)

Total Marks: 1

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

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Select the correct option

- Prevention
- Avoidance
- Handling
- Recovery

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Question # 8 of 10 (Start time: 12:02:50 PM, 05 August 2020)

Total Marks: 1

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

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Select the correct option

- >1
- <1
- ≥ 1
- ≤ 1

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Question # 10 of 10 (Start time: 12:05:02 PM, 05 August 2020)

Total Marks: 1

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.

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Select the correct option

- Safe
- Un-Safe
- Mutual
- Starvation

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Question # 1 of 10 (Start time: 11:57:19 AM, 05 August 2020)

Total Marks: 1

_____ algorithm is used in Deadlock avoidance.

Select the correct option

- Bakery
- Banker's
- Mutual exclusion
- Safe Sequence

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Question # 3 of 10 (Start time: 11:58:34 AM, 05 August 2020)

Total Marks: 1

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

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Select the correct option

- Cycle
- Graph
- Edge
- Node

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Question # 4 of 10 (Start time: 11:59:28 AM, 05 August 2020)

Total Marks: 1

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

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Select the correct option

- Unsafe
- Safe
- Starvation
- None

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Question # 5 of 10 (Start time: 12:00:09 PM, 05 August 2020)

Total Marks: 1

The run-time mapping from virtual to physical addresses is done by a piece of hardware in the CPU, called the -----

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Select the correct option

- Memory management unit (MMU)
- CPU Scheduler
- Registers
- None of the given options

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Question # 1 of 10 (Start time: 09:52:44 AM, 05 August 2020)

Total Marks: 1

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 _____.

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Select the correct option

- Deadlock
- Starvation

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Question # 3 of 10 (Start time: 01:19:42 AM, 11 February 2021)

Total Marks: 1

If there exists a logical address space of 16 pages of 1024 words, each mapped into a physical memory of _____ frames.

Select the correct option

- | | | |
|----------------------------------|----|----|
| <input type="radio"/> | 48 | // |
| <input checked="" type="radio"/> | 32 | // |
| <input type="radio"/> | 16 | |
| <input type="radio"/> | 64 | |

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Question # 1 of 10 (Start time: 01:17:33 AM, 11 February 2021)

Total Marks: 1

A _____ system is similar to a paging system with swapping

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Select the correct option

<input type="radio"/>	Context switching	//
<input checked="" type="radio"/>	Demand paging	//
<input type="radio"/>	Page fault	//
<input type="radio"/>	None of the given options	

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