

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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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 # 3 of 10 (Start time: 04:20:00 PM, 23 February 2022)

In Overlay technique, we can overload any part of the program with the part of the program required needed recently.

Select the correct option

False



True



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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

- Valid, invalid
- Virtual, physical
- hexadecimal, binary
- Physical, virtual



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Question # 9 of 10 (Start time: 04:26:18 PM, 23 February 2022)

-----holds the smallest legal physical memory address for a process

Select the correct option

| | |
|----------------------------------|-------------------------|
| <input checked="" type="radio"/> | Base register |
| <input type="radio"/> | Stack pointers register |
| <input type="radio"/> | Index register |
| <input type="radio"/> | Limit register |



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Question # 4 of 10 | **Start time: 04:20:28 PM, 28 February 2022**

Assume a regular address space of 10 pages of 1024 words each mapped into a physical memory of 32 frames. Each word consists of 2 bytes. What will be the total number of bits required for p (large number)?

Select the correct option

- 60 bits
- 80 bits
- 40 bits
- 90 bits



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Question # 2 of 10 (Start time: 04:30:07 PM, 23 February 2022)

Physical memory is broken down into fixed-sized blocks, called and Logical memory is divided into blocks of the same size, called

Select the correct option

- None, segments
- Frames, holes
- Pages, Frames
- Frames, pages

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Question # 1 of 10 (Start time: 04:18:37 PM, 23 February 2022)

Every ----- generated by the CPU is divided into two parts: a page number (p) and a page offset (d).

Select the correct option

| | |
|----------------------------------|-----------------------|
| <input type="radio"/> | Process address space |
| <input type="radio"/> | Page |
| <input checked="" type="radio"/> | Logical address |
| <input type="radio"/> | Physical address |

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Question # 8 of 10 (Start time: 04:25:37 PM, 23 February 2022)

A program can not execute unless whole or necessary part of it resides in the main memory.

Select the correct option

False



True



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Question # 10 of 10 (Start time: 04:36:31 PM, 23 February 2022)

The _____ protection scheme guards against a process trying to access a page that does not belong to its address space.

Select the correct option

| | |
|----------------------------------|-----------|
| <input type="radio"/> | Hybrid |
| <input type="radio"/> | Tertiary |
| <input checked="" type="radio"/> | Primary |
| <input type="radio"/> | Secondary |

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Each page is a power of ----- bytes long in paging scheme.

Select the correct option

| | |
|----------------------------------|---|
| <input type="radio"/> | 3 |
| <input type="radio"/> | 2 |
| <input type="radio"/> | 5 |
| <input checked="" type="radio"/> | 4 |

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Segmentation is a memory management scheme that supports _____?

Select the correct option

| | |
|----------------------------------|-----------------------------|
| <input checked="" type="radio"/> | Programmer's view of memory |
| <input type="radio"/> | Hardware's view of memory |
| <input type="radio"/> | None of the given |
| <input type="radio"/> | System's view of memory |

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Question # 10 of 10 (Start time: 04:26:40 PM, 23 February 2022)

The main memory is usually divided into partitions, one for _____ and other for _____.

Select the correct option

| | |
|----------------------------------|----------------------------------|
| <input type="radio"/> | Operating system, CPU |
| <input type="radio"/> | Processes, Virtual Memory |
| <input type="radio"/> | Base Register, Limit Register |
| <input checked="" type="radio"/> | Operating System, User processes |

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Question # 7 of 10 (Start time: 04:24:44 PM, 23 February 2022)

----- is caused due to un-used space in physical memory.

Select the correct option

| | |
|----------------------------------|------------------------|
| <input type="radio"/> | MVT |
| <input type="radio"/> | External fragmentation |
| <input type="radio"/> | Paging |
| <input checked="" type="radio"/> | Internal fragmentation |



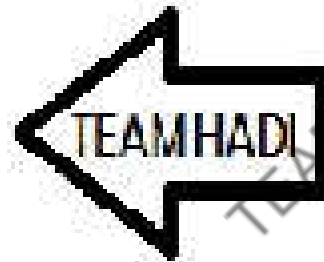
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Logical memory is divided into blocks of the same size, called _____

Select the correct option

- | | |
|----------------------------------|-----------|
| <input checked="" type="radio"/> | Pages |
| <input type="radio"/> | Table |
| <input type="radio"/> | Frame |
| <input type="radio"/> | Page size |



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Question # 8 of 10 (Start time: 04:34:51 PM, 23 February 2022)

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

Select the correct option:

- List
- Environment
- Queue
- Ready Queue



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-----holds the smallest legal physical memory address for a process:

Select the correct option

| | |
|----------------------------------|-------------------------|
| <input type="radio"/> | Limit register |
| <input type="radio"/> | Stack pointers register |
| <input type="radio"/> | Index register |
| <input checked="" type="radio"/> | Base register |

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Question # 6 of 10 (Start time: 04:24:04 PM, 23 February 2022)

A page table needed for keeping track of pages of the page table is called -----

Select the correct option

| | |
|----------------------------------|-----------------|
| <input type="radio"/> | Page size |
| <input type="radio"/> | Page table size |
| <input checked="" type="radio"/> | Page directory |
| <input type="radio"/> | 2-level paging |

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Question # 7 of 10 (Start time: 04:34:03 PM, 23 February 2022)

_____ is caused due to un-used space in fixed size blocks/ pages.

Select the correct option

- | | |
|----------------------------------|------------------------|
| <input type="radio"/> | MVT |
| <input checked="" type="radio"/> | Internal fragmentation |
| <input type="radio"/> | Paging |
| <input type="radio"/> | External fragmentation |

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