

CO-Quiz 3 of 5

Total questions : 10

Marks : 10

Time : 12 minutes

Note: For answers to questions of short answer/descriptive type, please enter CAPITAL letters only. Rest of the combinations will be given wrong.

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* Required

Suppose that associative mapping technique is used; where the size of main memory is 8K bytes and the size of cache memory is 2K words. Determine the size of one word in cache memory. *

- ☐ 12 bits
- ☒ 11 bits
- ☐ 21 bits
- ☐ 16 bits

There is a technique for memory management wherein a system stores and retrieves data from secondary storage for executing upon it the in main memory. Identify that technique. *

PAGING

Let there be 3 page frames allocated to a particular process. Also, suppose that none of the pages of the process are currently available in the memory. The references to the pages are made in the following manner: (reference string): 1, 2, 1, 3, 7, 4, 5, 6, 3, 1 If LRU page replacement policy is used, what will be the number of page faults? [Enter numerical answer only]. *

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Virtual memory facilitates the size of a certain program be greater than the size of primary memory. *

- ☒ True
- ☐ False

A computer system has a configuration such that 32-bits are used for virtual address and 32-bits are used for physical address as well. Since the virtual address space is of the same size as the physical address space, the operating system designers decide to get rid of the virtual memory entirely. Which one of the following situations can be indicated? *

- ☐ Efficient implementation of multi-user support is no longer possible
- ☐ The processor cache organization can be made more efficient now
- ☒ Hardware support for memory management is no longer needed
- ☐ CPU scheduling can be made more efficient now

Following characteristic of RAM memory makes it not applicable for the permanent storage of data? *

- ☐ too slow
- ☐ unreliable
- ☒ volatile
- ☐ bulky



The memory unit which is accessed by content is called *

- ☒ Associative memory
- ☐ Programmable memory
- ☐ Virtual memory
- ☐ ROM

The memory unit that communicates directly with the CPU is *

- ☒ Main memory
- ☐ Auxiliary memory
- ☐ Secondary memory
- ☐ Shared memory

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