

02 OSC - LAB EXAM - Student Particulars

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*** Required**

OSC Practice MCQ - 17-04-22

Memory *

- ☒ is a device that performs a sequence of operations specified by instructions in memory.
- ☐ is the device where information is stored
- ☐ is a sequence of instructions
- ☐ is typically characterized by interactive processing and time-slicing of the CPU's time to allow quick response to each user.

Interprocess communication *

- ☐ is required for all processes
- ☐ is usually done via disk drives
- ☐ is never necessary,
- ☒ allows processes to synchronize activity



Which of the following are loaded into main memory when the computer is booted? *

- ☒ internal command instructions
- ☐ external command instructions
- ☐ utility programs
- ☐ word processing instructions

To avoid the race condition, the number of processes that may be simultaneously inside their critical section is *

- ☐ 8
- ☒ 1
- ☐ 16
- ☐ 0

Bug means *

- ☒ A logical error in a program
- ☐ difficult syntax error in a program
- ☐ Documenting programs using an efficient documentation tool
- ☐ All of the above



Process is *

- ☐ program in High level language kept on disk
- ☒ contents of main memory
- ☐ a program in execution
- ☐ a job in secondary memory

Fork is *

- ☐ the dispatching of a task
- ☐ the creation of a new job
- ☒ the creation of a new process
- ☐ increasing the priority of a task

Page stealing *

- ☐ is a sign of an efficient system
- ☒ is taking page frames from other working sets
- ☐ should be the tuning goal
- ☐ is taking larger disk spaces for pages paged out



What is the name given to the organized collection of software that controls the overall operation of a computer? *

- ☐ Working system
- ☐ Peripheral system
- ☒ Operating system
- ☐ Controlling system

Which of the following statements is false? *

- ☐ the technique of storage compaction involves moving all occupied areas of storage to one end or other of main storage
- ☒ compaction does not involve relocation of programs
- ☐ compaction is also known as garbage collection
- ☐ the system must stop everything while it performs the compaction

The memory allocation scheme subject to "external" fragmentation is *

- ☒ segmentation
- ☐ swapping
- ☐ pure demand paging
- ☐ multiple contiguous fixed partitions



The FIFO algorithm *

- ☐ executes first the job that last entered the queue
- ☒ executes first the job that first entered the queue
- ☐ execute first the job that has been in the queue the longest
- ☐ executes first the job with the least processor needs

Fragmentation of the file system *

- ☐ occurs only if the file system is used improperly
- ☐ can always be prevented
- ☒ can be temporarily removed by compaction
- ☐ is a characteristic of all file systems

The LRU algorithm *

- ☐ pages out pages that have been used recently
- ☐ pages out pages that have not been used recently
- ☒ pages out pages that have been least used recently
- ☐ pages out the first page in a given area



Which of the following refers to the associative memory? *

- ☐ A. the address of the data is generated by the CPU
- ☐ B. the address of the data is supplied by the users
- ☒ C. there is no need for an address i.e. the data is used as an address
- ☐ D. the data are accessed sequentially

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