

## Ceng 328 - Quiz 5

**Solve all multiple choice questions.**

For Tuesday & Friday sections

1. (1.75 pts) An address generated by a CPU is referred to as a -----.
  - A) physical address
  - B) logical address
  - C) post relocation register address
  - D) Memory-Management Unit (MMU) generated address
  
2. (1.75 pts) The mapping of a logical address to a physical address is done in hardware by the -----.
  - A) memory-management-unit (MMU)
  - B) memory address register
  - C) relocation register
  - D) dynamic loading register
  
3. (1.75 pts) ----- is the dynamic storage-allocation algorithm which results in the smallest leftover hole in memory.
  - A) First fit
  - B) Best fit
  - C) Worst fit
  - D) None of the above
  
4. (1.75 pts) With segmentation, a logical address consists of -----.
  - A) segment number and offset
  - B) segment name and offset
  - C) segment number and page number
  - D) segment table and segment number

**Choose only one question.**

5. (8 pts) What is the context switch time, associated with swapping, if a disk drive with a transfer rate of 2 MB/s is used to swap out part of a program that is 200 KB in size? Assume that no seeks are necessary and that the average latency is 15 ms. The time should reflect only the amount of time necessary to swap out the process.

6. (8 pts) When does external fragmentation occur?