

C502 – Memory Management Quiz

1. Where is the 'swap space' located?
 - (a) Designated area in memory
 - (b) CPU Cache
 - (c) Hard disk
2. Consider a 16-bit Virtual memory address and a page size of 8 KB. How many pages can a process potentially have?
 - (a) 8
 - (b) 2
 - (c) 10
 - (d) 4
3. What causes a page fault?
 - (a) The page is not available on disk
 - (b) The page is faulty
 - (c) The page is not available in memory
 - (d) The page is dirty
 - (e) The page shouldn't be accessed
4. Increasing the RAM size usually helps with performance. Why?
 - (a) Increase in virtual memory
 - (b) Faster physical memory
 - (c) Not as many segmentation faults
 - (d) Reduced Thrashing
 - (e) Fewer memory leaks
5. Assume 3 memory frames and a reference string of 1, 2, 3, 6, 2, 1, 5, 3, 2, 4, 6. How many page faults do you get when using the Optimal Algorithm?
 - (a) 4
 - (b) 5
 - (c) 6
 - (d) 7
 - (e) 8