<table>
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<th>Assignment 5</th>
<th>Due on 2020-03-04, 23:59 IST.</th>
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1. Consider a machine with 54 MB physical memory and a 32-bit virtual address space. If the page size is 4KB, what is the approximate size of the page table?

- To AM
- 5 KB
- 2 KB
- 20 KB

No, the answer is incorrect, Score: 0
Accepted Answer: 2 KB

2. Page fault occurs when
- the page is not in main memory
- the process requesting the page does not have privilege to access the page

No, the answer is incorrect, Score: 0
Accepted Answer: the page is not in main memory

3. For a single-layered paging, every virtual address is divided into 2 parts. They are
- frame bit and page number
- page number and page offset
- page offset and frame bit

No, the answer is incorrect, Score: 0
Accepted Answer: page number and page offset

4. Paging increases the _______ time.
- waiting
- execution
- context switch
- all of these

No, the answer is incorrect, Score: 0
Accepted Answer: context switch

5. Which of the following registers is used for getting the address of page directory?
- esp
- cs
- ds
- es

No, the answer is incorrect, Score: 0
Accepted Answer: es

6. What is the structure of an entry in a page table?
- 32-bit address of next-level page table or page and 4-bit flags
- 32-bit address of next-level page table or page and 4-bit flags
- 32-bit address of next-level page table or page and 12-bit flags
- None of the above

No, the answer is incorrect, Score: 0
Accepted Answer: 32-bit address of next-level page table or page and 4-bit flags

7. Which one of the following is an advantage of segmentation over paging?
- Fragmentation is less in segmentation
- Segmentation is faster than paging
- Number of block is less in segmentation
- All of the above

No, the answer is incorrect, Score: 0
Accepted Answer: fragmentation is less in segmentation

8. If one tries to access a page which is valid according to page directory and not valid according to page table, then
- Page Fault
- Successful write operation
- None of the above

No, the answer is incorrect, Score: 0
Accepted Answer: Page Fault

9. What is the default size for kernel (data, code etc.) in VA space of a process in Linux 32-bit environment?
- None
- 32 KB
- 20 KB
- 16 KB

No, the answer is incorrect, Score: 0
Accepted Answer: 32 KB

10. If the memory access time is denoted by ‘tM’ and ‘tP’ is the probability of a page fault (0 < tP < 1), then the effective access time for a demanded page memory is.

No, the answer is incorrect, Score: 0
Accepted Answer: tM + tP x tP

**Test Transcripts**