



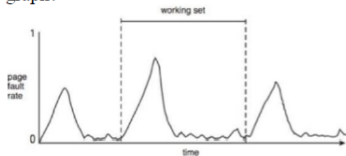
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## Question Paper

### No. Question

- 1 Which of the following statements is an advantage of system-level threads over user-level threads?
- System-level threads work even if the operating system doesn't support threads.
  - When a system-level thread blocks in the kernel, it doesn't stop all other threads in the same process.
  - It is easier to switch between system-level threads than user-level threads.
  - It is easier to create system-level threads than user-level threads.

- 2 Consider the following graph. It represents the number of page faults by a process over the time. Which of the following can be concluded from the graph?



- The peaks indicate a time when the process is demand paging a new locality.
- The process has moved to three different localities, either in data or code space, then settled in for a time before moving again.
- The sections with a small number of page faults after the peaks indicate that pages for the current working set have been allocated to the project.
- All of the above.

- 3 Consider a disk queue holding requests to the following cylinders in the listed order: 98, 183, 57, 122, 200, 124, 65 and 67. Using the C-SCAN scheduling algorithm, what is the order that the requests are serviced assuming the disk head is at cylinder 97 and moving towards 0?
- 67 - 65 - 57 - 200 - 183 - 124 - 122 - 98
  - 67 - 65 - 57 - 98 - 122 - 124 - 183 - 200
  - 98 - 122 - 124 - 183 - 200 - 57 - 65 - 67
  - 98 - 122 - 124 - 183 - 200 - 67 - 65 - 57

- 4 Consider a virtual memory system with 46 bit virtual address and 42-bit physical addresses and 6 status bits per page table entry. How large does the page size (in KB) have to be to allow each page table entry to fit in a 4-byte word?
- 1 MB
  - 16KB
  - 64KB
  - 64 MB

- 5 Assume that the logical address of segments is 20-bit. The space of an offset is 64KBytes. Each entry in the segment table, containing a segment base and a segment limit, is 32-bit. How many bytes are needed at most for a whole segment table?
- 512 Bytes
  - 64 Bytes
  - 64 Bits
  - 4 MB

- 6 A process P1 has the following page table. Frame numbers are given in hexadecimal notation

### ? Question Paper i Instructions

English ▾

Full Screen

Marks : +  
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0 Answered 1

38 Not Visited 1

0 Answered & Mark Review

### SECTION : Operating System

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