

Operating System: GATE PYQ - Threads

By: Vishvadeep Gothi





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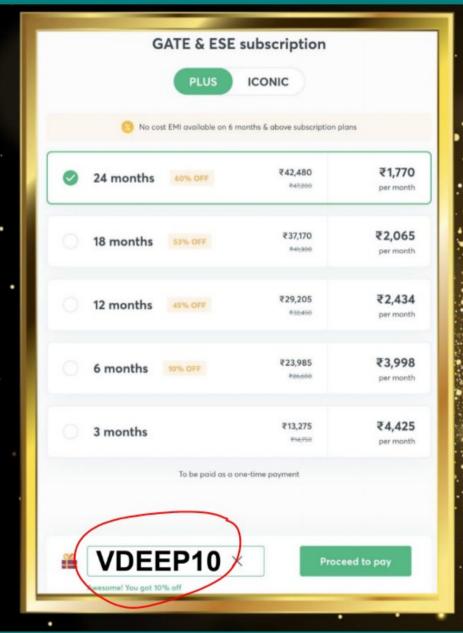
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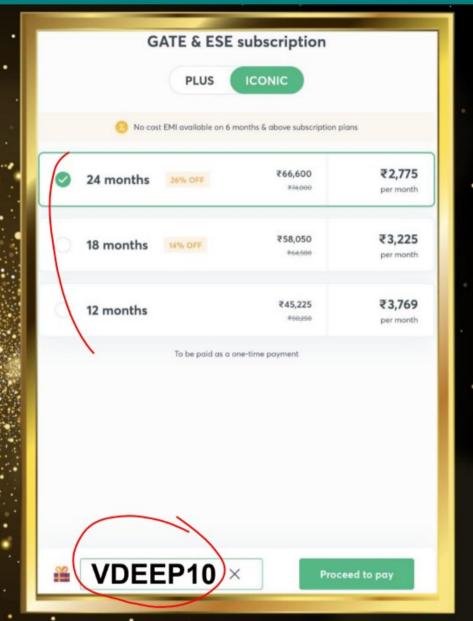


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Are You Ready??











Consider the following statements with respect to user-level threads and kernel-supported threads

- context switch is faster with kernel-supported threads
- II. for user-level threads, a system call can block the entire process
- III. Kernel supported threads can be scheduled independently
- W. User level threads are transparent to the kernel

Which of the above statements are true?

- . II, III and IV only
 - B. II and III only
 - C. I and III only
 - D. I and II only



Which one of the following is NOT shared by the threads of the same process?

- A. Stack
- B. Address Space
- C. File Descriptor Table
- D. Message Queue



Consider the following statements about user level threads and kernel level threads. Which one of the following statements is FALSE?

- A. Context switch time is longer for kernel level threads than for user level threads. True
- B. User level threads do not need any hardware support. True
- C. Related kernel level threads can be scheduled on different processors in a multi-processor system. True
- D. Blocking one kernel level thread blocks all related threads. False



A thread is usually defined as a light weight process because an Operating System (OS) maintains smaller data structure for a thread than for a process. In relation to this, which of the following statement is correct?

- A. OS maintains only scheduling and accounting information for each thread
- B. OS maintains only CPU registers for each thread
- C. OS does not maintain virtual memory state for each thread
- D. OS does not maintain a separate stack for each thread

for process



True

Which one of the following is FALSE?

- A. User level threads are not scheduled by the kernel.
- B. When a user level thread is blocked, all other threads of its process are blocked.
- C. Context switching between user level threads is faster than context switching between kernel level threads. True,
- Kernel level threads cannot share the code segment. False



Threads of a process share

- A. global variables but not heap
- B. heap but not global variables
- C. neither global variables nor heap
- D, both heap and global variables



Which of the following is/are shared by all the threads in a process?

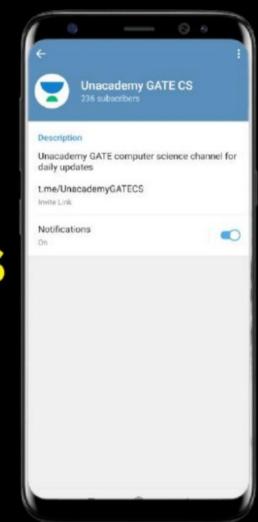
- I. Program counter X
- II. Stack X
- III. Address space
- IV. Registers ×

Co de

- A. I and II only
- B. III only
 - C. IV only
 - D. III and IV only



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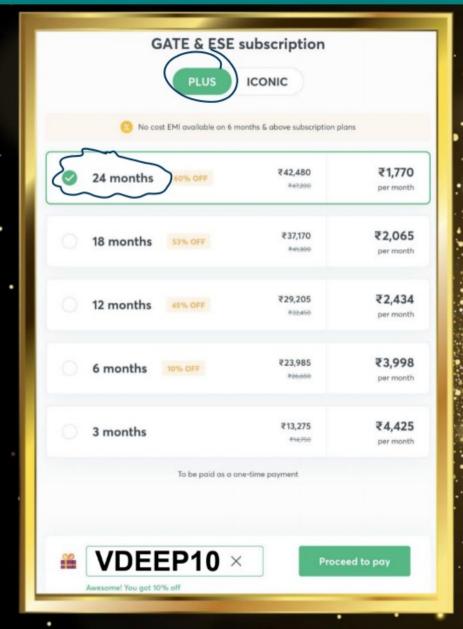
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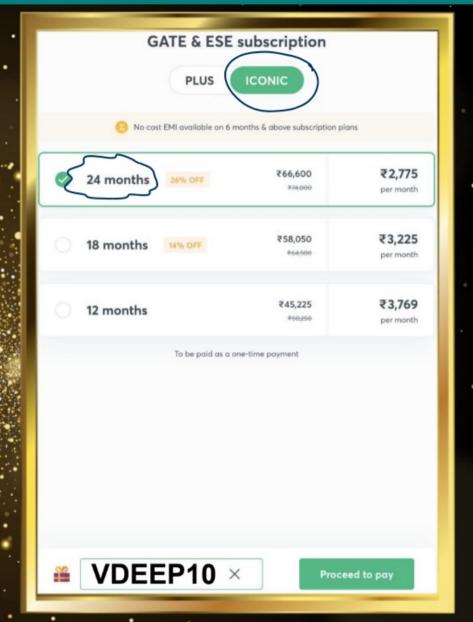
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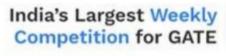
















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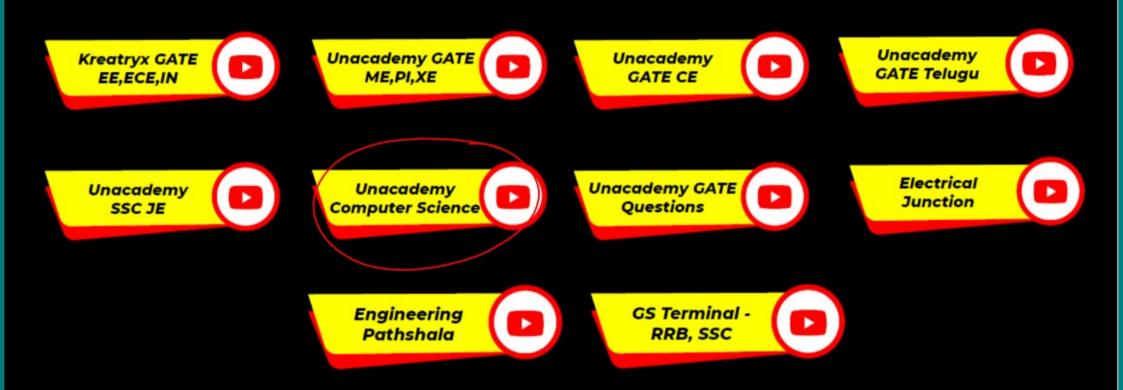
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