## **CL 2006 Operating Systems Lab**

Time: 20 minutes		Quiz 3	<u>Marks: 30</u>
<u>N</u> :	ame:		<b>Roll #:</b>
	<u>Q</u> ı	uestion 1 [15 Marks]	
Consid	ler the following scenario and answer	the following questio	ns:
-	ess has three threads T1, T2, and T3, and T3 are a files and thread T2 creates a pipe		ontain any exec*() commands. The thread
2.	Thread T1 executes a fork() commar Thread T2 executes a fork() whose program. Thread T3 closes the three files and	child immediately ca	alls execvp() to execute a single threaded
Note th	at all processes use Pthreads.		
	How many different processes are ru	unning? Why? [3 mar]	ks]
	How many different programs are be		
	Would any of the above answers ch marks]	nange if the execvp()	call was not made? If so, explain how. [3

☐ Thread T3 makes a system call that causes all threads to terminate. Which system call could it be? [1 mark]
Question 2 [15 Marks]  In pseudocode format, explain how would you create a multithreaded process in which two threads play Tictac-toe with each other?