CS314 Operating System Spring 2024 Exercise Question on April 23-A, 2024

Is each of the following statements true or false? Please choose either TRUE or FALSE (no "it depends"). It is your responsibility to clearly indicate which option you chose. For this question, you can answer TRUE or FALSE below (no need to provide ensures (avalenation in separate paper)

TRU	JE or FALSE below (no need to pro	ovide answers/explanation in separate paper).
(1)	If all the system interrupts are disabled, race condition can never occur.	
	[TRUE	FALSE]
(2)) Swap files are for holding pages in a secondary storage device when a memory page-fault happ	
	[TRUE	FALSE]
(3) Use of preemptive resources is a necessary condition for unbour		ecessary condition for unbounded priority inversion to happen.
	[TRUE	FALSE]
(4)	Rate-Monotonic real-time process scheduling performs the long-term and the short-term scheduling but not medium-term scheduling.	
	[TRUE	FALSE]
(5)	S) Round-robin (RR) short-term process scheduling can behave in exactly the sane way FCI term process scheduling does if we are not careful for its (RR) tuning.	
	[TRUE	FALSE]
(6)	i) If the contents of a file should be read in its entirety, UNIX file system will be faster than file system (if all the other conditions are the same between them).	
	[TRUE	FALSE]
(7)	Fine-grain multi-processor scheduling can be implemented by a library.	
	[TRUE	FALSE]
(8)		disk is increased (but nothing else changes), the utilization of the o decrease if i-node file system is used. Assume that the pointer
	[TRUE	FALSE]

(9)	The timestamp used in Lamport's Logical Clock lets all the participating processes agree on the order of the events happened at the participating processes at any point of time.		
	[TRUE	FALSE]	
(10)	(10) Short-term scheduling algorithms should allocate higher scheduling priority to I/O-bound program for optimizing (maximizing) the throughput (the number of processes completed in a certain tin interval).		

FALSE]

[TRUE