

ENCS3390- Operating Systems

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Quiz #3

Section#4

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estion #1 (10 Points): True or False. Correct the false ones. Write your answers in the table below				
1.T	2.F	3.T	4.T	5.F
1. (T/F) S	Starvation is always p	ossible in the dining	philosophers problem	1
Correction	if False Monitors sol	ved the deadlock pro	blem but starvation is	s still possible
2. (T/F) A	Atomic operation con	tains only one instruc	tion.	
Correction	if False: atomic oper	ration can contain mo	re than one instructio	n, but it cannot be interrupted.
3. (T/F) H	Binary semaphore is t	he same as the mute	x lock	
Correction	if False			
	The signal () ope		n variable turns into	a no-op (no effect), if there are
<i>a</i> .:	if False			

5. (T/F) lock acquire () operation must be atomic, whereas the release () operation can be non-

Correction if False both acquire() and release() must be atomic

atomic

Question #2 (10 Points): Write a pseudo code (or a C++ code) to solve the bounded buffer problem using monitors.				
A a in the clides				
As in the slides				
G	OOD LUCK			