va	111	e:		(FIRST N	ame first)	Score:	
COSC 6360		Qui	z #3		OCTOBER 25, 2010		
Clos	sec	I book. You can have with you or	ne single-side	ed 81/2 by 11 sheet of	notes. Each	question is worth 20 points.	
1. Under which conditions will the CSP command west!count; fail?							
	a)	If west terminates.					
	,	<u> </u>					
	b)	If counts becomes undefined.					
		onsider a RAID-5 array having five data blocks, namely, b_1 , b_2 , b_3 , b_4 , and b_5 and one parity block p per ripe.					
	a) How many disk drives does it comprise?					six drives	
	b)	Assuming that block b_3 suddenly becomes unavailable, how could you reconstruct its contents?					
		•	•	·	•		
		$b_3 = \underline{b_1 \times OR} \underline{b_2}, \underline{XOR} \underline{b_4 \times OR} \underline{b_5 \times OR} \underline{p}$					
		onsider a <i>multiple-ring</i> Totem system consisting of three rings respectively named A, B and C. ssuming that a given processor has received messages with the following time stamps					
			From ring	Messages sent at			
			A	4:25 PM, 5:05 PM			
			С	4:55 PM			
	حاد	iah magagaga will ha daliwarad h		4:35PM			
		nich messages will be delivered by the processor if all messages are agreed delivery messages and No guaranteed vector message was sent by any ring?					
	a)	No guaranteed vector message was sent by any ring?					
		It will deliver messages sent at 4:25 PM					
	b)	Each ring sent a guaranteed vector message at exactly 5:00 PM?					
		It will deliver messages sent at 4:25 PM, 4:35 PM and 4:55 PM					
		The Will deliver messages sent at 1125+M, 1135+M and 1135+M					
		at are the main advantage and the main disadvantage of using <i>journaling with synchronous log</i> dates compared to using soft updates?					
	a)	Main advantage:					
		Durability of metadata updates: they are immediately stored in stable memory.					
	b)	Main disadvantage:					
		High cost of the policy resulting in a lower performance of the file system.					
	НΛ	w can Sprite LES retrieve the cor	ntents of its i-	node man when the	system rehod	nts after a crash?	

a) Retrieve from the checkpoint area the addresses of all i-node map blocks at checkpoint time.

and search for i-node map blocks.

b) Scan the portion of the log containing the disk writes those happened after the checkpoint time