Na	Name: (First name first)	Score:
C	COSC 6360 Quiz #3	August 3, 2009
	This exam is closed book. You can have one page of note	S.
1.	<ol> <li>Give two file organizations that guarantee the consistency of metadata upda (2x10 points)</li> </ol>	tes but not their <i>durability</i> .
	Soft updates.	_
	Journaling with asynchronous log updates.	
2.	2. What does an NFS client do when it does not receive a reply from the server? that? (10 points)	(10 points) Why can it do
	An NFS client that does not receive a reply from the server after it has s request. This is only possible because all NFS requests are <u>idempotent</u> , which multiple executions of any given request is the same as the effect of a single	h means that the effect of
3.	3. Which important feature of CODA would be lost if callbacks were replaced by lea	ses? Why? (20 points)
	If callbacks were replaced by leases, CODA clients could not operate anymore in disconnected mode because they would be unable to obtain leases or renew them for the files they want to access.	
4.	4. How does the Blue file system manage its write queues? (10 points) How consumption of the system? (10 points)	does this impact the power
	When it is time to write some of the blocks in a write queue to the device associated with the queue Blue flushes the whole contents of that write queue. This creates a write access pattern consisting of bursts of write accesses separated by periods of idleness during which the device can be powered down.	
5.	5. You are to design a FARSITE file system that can tolerate two Byzantine failure	<b>2</b> S.
	a. What is the <i>minimum</i> number of members in each directory host? (10 points	) <u>seven</u> members
	<b>b.</b> What is the <i>minimum</i> number of copies each data block should have? (10 pc	pints) <u>three</u> copies
	<b>Explanation:</b> We need seven members in each directory host in order to Byzantine failures but only three copies of each data blocks to tolerate the le	