## **GUJARAT TECHNOLOGICAL UNIVERSITY** B. E. - SEMESTER – VI • EXAMINATION – WINTER 2012

Subject code: 163101Date: 08/01/2Subject Name: Operating System DesignTime: 02.30 pm - 05.00 pmTime: 02.30 pm - 05.00 pmTotal MarksInstructions:Total Marks			/2013	
			70	
Instr	1. 2.	<b>IONS:</b> Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)		07 03 04	
Q.2	<b>(a</b> )	<ul><li>(i) Explain buffer header.</li><li>(ii) What are the fields stored in disk inodes? What fields contains in incore copy of inode?</li></ul>	03 04	
	(b)		07	
	(b)		07	
Q.3	(a) (b)	Explain link and unlink system calls. Explain race condition during unlink system call.	07 07	
Q.3	(a) (b)	· · ·	07 07	
Q.4	(a) (b)		07 07	
Q.4 Q.4	(a) (b)		07 07	
Q.5	<b>(a</b> )	Explain the algorithm for fork. What information inherited by child from parent process?	07	
	(b)	OR	07	
Q.5	(a)	file.	07	
	(b)	Explain Process Scheduling in UNIX system.	07	

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