Roll	No.	

23071

M. Tech. 2nd Semester (Computer Engg.) Examination – January, 2012

RESOURCE MANAGEMENT IN COMPUTER SYSTEMS Paper: MTCE-604 - A

Time: Three hours] [Maximum Marks: 100

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complain in this regard, will be entertained after examination.

Note: Attempt only *five* questions. All questions carry equal marks.

- Define operating System. Explain the functions & services of operating systems.
- **2.** What is a system calls? Explain different types of system calls in operating systems.
- 3. Write short notes on:
 - (a) Virtual memory.

10

(b) Thread.

10

4.		nat is a deadlock? Explain different deadling mechanism.	20 20		
5.		at is Distributed Operating System ? Experimental chitecture of distributed system.	lain 20		
6.	. Explain distributed file system. Also explain mechanism for building distributed file system.				
7.	Explain:				
	(a)	Token Based algorithms.	10		
	(b)	b) Logical clock.			
		,			
8.	(a)	What is distributed mutual exclusion.	10		
		(b) Explain access matrix model.	10		