B. Tech Degree VIII Semester Examination, April 2010

CS 802 DISTRIBUTED COMPUTING

(2002 Scheme)

Time: 3 Hours		(2002 Scheme) Maximum Ma	Maximum Marks: 100	
			(10)	
I.	(a)	Describe the design and user requirements of distributed systems.	(10) (10)	
	(b)	Explain interprocess communication in UNIX.	(10)	
		OR	(10)	
II.	(a)	Explain remote procedure call with diagram.	(10)	
	(b)	Explain JAVA RMI.	(10)	
III.	(a)	Differentiate between process and threads.	(5)	
11.	(b)	What do you mean by monolithic and micro kernel.	(5)	
	(c)	Explain virtual memory implementation in distributed system.	(10)	
	` '	OR	(10)	
IV.	(a)	Explain the design issues in distributed file services.	(10)	
	(b)	Write short note on DNS.	(10)	
V.	(a)	What is the difference between a physical clock and logical clock?	(10)	
٧٠	(b)	Explain Cristian's method for synchronizing clocks. OR	(10)	
VI.	(a)	What is distributed mutual exclusion?	(5)	
V 1.	(b)	Explain bully algorithm for election.	(15)	
VII.	(a)	What do you mean by nested transaction?	(5)	
V 11.	(a) (b)	Explain different concurrency control techniques.	(15)	
	(0)	OR	(4.0)	
VIII.	(a)	Explain distributed transactions.	(10)	
	(b)	How can we prevent distributed deadlocks?	(10)	
IX.		What is a fault? Explain the various types of faults that can occur in distributed system.	(20)	
X.	(a)	OR Explain any one method of cryptography used in distributed environment to	(10)	
	<i>a</i> >	ensure security. Write short notes on fault tolerance.	(10)	
	(b)	Write short notes on fault tolerance.	` ,	



