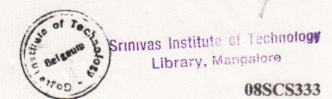
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Third Semester M.Tech. Degree Examination, June/July 2011 Distributed Systems

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

1	a.	Describe the core components of the world wide web.	(10 Marks)						
	b.	How scalability is handled by the distributed systems? Explain.	(10 Marks)						
2	a.	Explain the types of failures observed in failure model of the distributed systems.	(10 Marks)						
	b.	Explain the role of middleware in the distributed computing architectures.	(10 Marks)						
3	a.	List and explain the various switching schemes in network computing.	(10 Marks)						
	b.	With pseudocode explain router information protocol (RIP).	(10 Marks)						
4 8	a.	Discuss the CORBA's Common Data Representation (CDR), with example.							
	b.	Explain request reply protocol with HTTP as an example.	(10 Marks)						
5	a.	How are interfaces and exceptions handled in distributed systems?	(10 Marks)						
	b.	Explain the architecture for multithreaded servers.	(10 Marks)						
6	a.	What are secret key algorithms? Explain with code the TEA encryption and	decryption						
		function.	(10 Marks)						
	b.	How recoverability is achieved from aborts, during transactions in distributed sys	tems?						
			(10 Marks)						
7		Explain the two phases commit protocol in distributed transactions.	(10 Marks)						
	b.	Bring out the structural composition of distributed shared memory.	(10 Marks)						
8		Write short notes on :							
	a.	Java RMI.							
	b.	Inter process communication in UNIX.							
	c.	Ethernet.							
	d.	Sun network file system.	(20 Marks)						

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