## Paper / Subject Code: 37302 / DISTRIBUTED SYSTEMS

## T.E.(INFORMATION TECHNOLOGY)(Sem VI) (CBSGS) / 37302 - DISTRIBUTED SYSTEMS

		(3 Hours) [Total Marks:	80]	
N.B.		(1) Question No.1 is <b>compulsory</b> ; solve any <b>three</b> questions from <b>remaining</b> questions.		
		) All questions carry equal marks. ) Specify your answers with neat diagrams and examples wherever necessary.		
	` .		N. A.	
1	а	Explain what is callback RPC.	05	
	b	Components of EJB framework.	05	
	С	Explain Message Buffering in IPC.	05	
	d	Group communication.	05	
2	а	What is a thread and advantages of using them? What are different models for organizing threads?	10	
	b	What are the reasons for migration of code? Explain the various models for code migration?	7 10	
3	а	Define Happened- Before Relationship. Explain implementation of logical clocks with an example.	10	
	b	Explain SOA lifecycle with diagram. Also state the advantages of SOA.	10	
4	а	Explain with respect to EJB- Roles in EJB and types of Beans.	10	
	b	What is Mutual Exclusion? Explain Distributed Mutual Exclusion algorithm.	10	
5	а	Explain RPC Communication Protocol	10	
	b	Describe the different approaches for deadlock detection in a distributed computing system.	10	
6		Write short notes on (Any Four)	20	
	a	RMI Execution		
	b	Compare NOS and DOS		
	<b>င</b> ်	Distributed protocols		
	d	CORBA Components		
	e	Compare Stateful and Stateless server implementations		
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