Paper / Subject Code: 37302 / DISTRIBUTED SYSTEMS T.E. SEM VI / CREDIT BASE / IT / NOV 2018 / 26.11.2018



NI D		(3 Hours) [Total Warks:	נטם	
N.B.	(1)	(1) Question No.1 is compulsory; solve any three questions from remaining questions.		
		(2) All questions carry equal marks.		
		Specify your answers with neat diagrams and examples wherever necessary.		
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?	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	
	а	RMI Execution		
	b	Compare NOS and DOS		
	С	Distributed protocols		
	d	CORBA Components		
	е	Compare Stateful and Stateless server implementations		