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Set No. 1

[5]

R10 Code No: **R42051** IV B.Tech II Semester Regular Examinations, April/May - 2014 **DISTRIBUTED SYSTEMS** (Common to Computer Science & Engineering and Information Technology) Time : 3 hours Max. Marks: 75 **Answer any Five Questions** All Questions carry equal marks ***** 1 a) What is distributed systems? Explain its features along with its motivation for [8] constructing. b) Analyze different challenges of distributed system [7] What are different system model of distributed system [15] a) What are characteristics of the TCP stream communication [7] b) What is meant by group communication? Explain different types of groups? [8] What is meant by object model? Describe how distributed object are related to [15] distributed system? 5 a) Difference between middleware and operating system support? [8] b) What is meant by thread? Differentiate between process and threads? [7] 6 a) What are the main characteristics of peer to peer systems? [10] b) Write about overlay routing. [5] 7 a) Differentiate between client server algorithm & ring based algorithm [10]

8 What is meant by concurrency control? How it is important in distributed [15] systems

b) Write about multicast synchronization?

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Set No. 2 **R10** Code No: **R42051** IV B.Tech II Semester Regular Examinations, April/May - 2014 **DISTRIBUTED SYSTEMS** (Common to Computer Science & Engineering and Information Technology) Time : 3 hours Max. Marks: 75 **Answer any Five Questions** All Questions carry equal marks **** 1 a) What is meant by obiquitous computing? Explain [8] Summarize the example of distributed systems b) [7] 2 a) What are the difficulties and threats of distributed system [8] b) Describe the main architectural model of distributed system [7] 3 What is meant by interprocess communication? How inter process [15] communication is used in distributed systems 4 What are design issues for remote method invocation? [15] a) What is meant by shared memory multiprocessor? Explain. 5 [8] b) Explain how operating system layer support common middle ware. [7] 6 a) Distinguish between IP and overlay routing for peer to peer applications. [8] b) What are the non functional requirements of peer to peer middleware? [7] 7 a) Write about fault tolerance. [7] b) What are the features required for election algorithms. [8] 8 a) Write rules for connecting of nested transaction. [8] b) Write about locking in distributed systems. [7]

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Set No. 3 **R10** Code No: **R42051** IV B.Tech II Semester Regular Examinations, April/May - 2014 **DISTRIBUTED SYSTEMS** (Common to Computer Science & Engineering and Information Technology) Max. Marks: 75 Time : 3 hours **Answer any Five Questions** All Questions carry equal marks ***** 1 a) What are different trends in distributed systems? [8] b) Describe about distributed multimedia systems. [7] 2 a) Distinguish between two-tier and three-tier architectures. [8] b) What are thin clients? Explain any two applications of thin clients. [7] 3 What meant by marshalling? Differentiate between TCP stream [15] communication and Client Server Communication. 4 a) Differentiate between RMI and Remote procedure call. [8] b) Summarize about implementation of RML. [7] 5 a) Explain architecture of server threads. Give its applications. [8] b) Write about invocation and address space. [7] 6 a) Explain and summarize Napster and its legacy with respect to distributed file [8] system. b) Explain sun network file system. [7] 7 Write about bully algorithm and summarize how it is different from other [15] election algorithms. 8 a) Explain about locking in strict two phase locking. [8] b) Write about distributed deadlocks. How to prevent deadlocks in distributed [7] systems

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R10

Set No. 4

IV B.Tech II Semester Regular Examinations, April/May - 2014 DISTRIBUTED SYSTEMS

(Common to Computer Science & Engineering and Information Technology)			
Time : 3 hours Max. Ma			rks: 75
Answer any Five Questions All Questions carry equal marks			
1	a)	Describe the distributed computing as utility.	[8]
	b)	What are different benefits of resource sharing. Explain about its significance	[7]
2		What is meant by event ordering. Explain real time ordering of events.	[15]
3	a)	What are the characteristics of inter process communication	[10]
	b)	What is meant by external data representation	[10]
4		Write short note on	[15]
		i) java RMI ii) Events and Notifications	
5	a)	What is meant by light weight remote procedure call?	[5]
	b)	how could an interrupt be communicated to a user level server	[5]
	c)	Difference between object and distributed object.	[5]
6	a)	What is meant by failure assumption and failure detectors?	[8]
	b)	Write the algorithm of mutual exclusion.	[7]
7	a)	Explain about coordination and agreement in group communication	[8]
	b)	What meant by total ordering and where it is used.	[7]
8	a)	Write is meant by timestamp ordering and how it is different from optimistic	[8]
	,	currency control.	
	b)	Write about active and passive replications	[7]

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