Dec 2015

13E-SEM JIJI (R-2007) comp. Distributed computing QP Code: 2931

## Total Marks : 100 marks

3 hrs.

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11	Q	ιç	

1. Question 1 is compulsory

2. Attempt any 4 out of the remaining questions.

Q1.	No. a strate of NOS and DOS	(85)
	a) Comparison of NUS and DUS. b) Explain the issues in designing Distributed Systems	(05)
	c) Explain RPC Model for communication in z. Distributed system.	(10)
		) C
Q2.	<ul> <li>a) Explain Absolute as well as Causal ordering semantics for group communication in a distributed system, with an example for each.</li> <li>b) Explain the need for exacting the system.</li> </ul>	ो(10) (10)
	b) Explain the need for coordinator selection in a distributed system.	(10)
	Explain one of the shategies for the same in dotain.	
03		
Q3.	a) Explain implementation of sequential consistency model for "Replicated and Migrating" block for distributed shared memory.	(10)
	b)What do you understand by clock synchronization? Explain Lamport's Mechanism	(10)
Q 4.	E. C.	
	a) What is phantom reads problem. Explain any one algorithm for distributed	(10)
	deadlock detection.	
	b) What are data centric and client centric consistency models. Explain one model	(10)
05)		
20)	a) List desirable features of a good distributed file sustan	
	How are modifications propagated in file caching schemes?	(10)
	b) Compare Load sharing to task assignment and Load balancing strategies for	(10)
06)	scheduling processes in a distributed system.	(10)
20)	a) Fundain Address Space ton C. a)	
	b) Explain stateless and stateful areas implemented by the state of th	n. (10)
	of each	(10)
Q7)	Write short note on any 4	
	a) Issues in designing DSM.	(20)
	b) Naming Service	
	c) Distributed Transactions	
	d) Desirable feature of a good Naming System	
	e) Lightweight RPC and Call back RPC.	
	Le la	

SARDARPAT QP-Con. 12117-15. B.E. Computer VIII (R-2007). Sofhoare Architechure.

16/12/15

**QP** Code : 2697

	N.B.:	(3 Hours)	[Total Marks 100]		
-	1. Question No.1 is C 2. Attempt any four 3. Figures to the righ	Compulsory. out of remaining Questions. at indicate full marks.			6 M
	Q1. Attempt any four from a) Compare and com b) What is reference architecture?	om the following questions. trast stream connector and link e architecture? How does it d	age connector. liffer from ordinary software	[05] ~	0
	<ul><li>c) Differentiate arch</li><li>d) What is a differentiate</li><li>e) Differentiate soft</li></ul>	atectural erosion and architecturice between view and viewpoin ware architecture and software	ral drift ht? design.	[05] [05] [05]	Č-
٠	Q2. a) What is SOA and b) What is architec example.	web services? tural pattern? Explain any o	ne pattern in detail with	[10]	
*	Q3 a) Compare and cont connector.	rast event-based and client-ser	ver based data distinution	[10]	
	<ul> <li>b) What is stakehold</li> <li>c) Explain basic fea</li> </ul>	er driven modelling? tures of xADL.	S'	[05] [05]	
	Q4. a) List various archi styles and Archite b) Explain simulati c) Explain 4+1 view	tectural styles. What are the dif ectural patterns. on base framework w in UML?	ferences between architectural	(10] [05] [05]	
-	Q5. a) What is REST? E b) What is perspectiv	xplain its architecture	(114 million of the second sec	[10] [10]	a tagan an a tagan a
•	Q6. a) Explain in brief the NFP (no-function b) Explain with an e	he guidlines of a good Software al property) goals. xample software System Mobil	e architecture for achieving ity and Architecture	[10] [10]	- Igran
-	Q7. Write short notes or i) C2 style Architec ii) ATAM	Any TWO]		[20]	
	iii) Domain specific	software architecture			
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ADA	-4			1-	