B.E. Eighth Semester (Computer Science & Engineering) (CGS) 10355: Professional Elective - II: Distributed Computing: 8 KS 04

AU - 3015 P. Pages: 2 Time: Three Hours Max. Marks: 80 All question carry as indicated marks. Notes: 1. 2. Assume suitable data wherever necessary. 3. Illustrate your answer necessary with the help of neat sketches. 1. Discuss the issues in designing the distributed computing system. 6 a) Explain client- server architecture in view of distributed system. b) OR 7 2. What are the various model in distributed computing system. a) How client- server architecture justify the distribution of work in computing environment 6 b) system. 7 Explain the role of RPC communication in distributed system. 3. a) Justify the desirable features required for good message passing system with an example. 7 b) OR 7 Explain implementation of RMI remote method invocation along with parameter passing. 4. a) 7 What are the elements of RPC mechanism? Thus explain their role. b) 7 Why does election algorithm plays an important role in distributed system? Explain and 5. a) compare bully algorithm. 6 Give suitable example to show that if any one of necessary conditions for a deadlock is b) absent, no deadlock is possible. OR 6 6. State and explain Lamport's algorithm for clock synchronization. a) 7 Explain mutual exclusion for centralized approach. b) 7 Discuss the thread usage and explain design issues for threads. 7. a) 7 b) Explain design issues for processor allocation algorithms.

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OR

8.	a)	Describe and explain creating a thread when a message arrives.	7
	· b)	Explain the triple modular redundancy design for fault tolerance.	7
9.	a)	What is shared memory? Thus explain Ring-Based Multiprocessors and use of Memnet device.	6
	b)	Explain heterogeneous distributed shared memory.	7
		OR	
10.	a)	State and explain general architecture of distributed shared memory.	7
	b)	Discuss the design issues in implementing DSM systems.	6
11.	a)	What is directory server interface? Explain the structure of directory graph an two machine.	7
	b)	What are the distributed file system design principles which lead to improve performance?	6
		OR	
12.	a)	What do you mean by shared file in distributed file system? Thus explain session semantics.	6
	b)	Describe and explain how does caching memory helps in file management of distributed system.	7

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