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B.Tech Degree S7 (S, FE) / S7 (P	T) (S, FE) Examination December	20834	2013 Scheme)	A.
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Course Code: CS407

Course Name: DISTRIBUTED COMPUTING

Max. Marks: 100 Duration: 3 Hours

PART A

		FARI A	
•		Answer all questions, each carries 4 marks.	Marks
1		Explain any four features that characterize the distributed system.	4
2		Distinguish between loosely coupled and tightly coupled systems.	4
3		Define mobile agents.	4
4		What is the importance of sockets in the communication system?	4
5		Explain the purpose of marshalling in DS.	4
6		What do you mean by flat file service in DFS?	4
7		Explain concurrency control in a distributed environment.	4
8		What is serializability in concurrency control?	4
9		What is mutual exclusion? Why it is needed in a distributed environment?	4
10		Is the election algorithm an effective way to select a master? Justify your answer.	4
		PART B	
		Answer any two full questions, each carries 9 marks.	
11	a)	Discuss the issues while implementing a workstation model and give solutions for	9
		each.	
12	a)	How can we use proxy servers and caches in the architecture model? Explain	9
13	a)	Analyze the security risks in an interaction model.	4
	b)	Explain the significance of transparency in a distributed system.	5
		PART C	
		Answer any two full questions, each carries 9 marks.	
14	a) .	How can we use IP multicast in group communication? Explain	9
15	a)	How can API be used for data communication? Explain	9
16	a)	How the Unix file system is used to implement a DFS?	4
	b)	What factors should be considered, when client integration is done?	5

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PART D

Answer an	y two full (questions, each	n carries i	12 marks
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17	a)	Explain issues that must be addressed when concurrent transactions take place.	12
18	a)	Explain Mackawa's voting algorithm.	12
19	a)	Discuss the Deadlock situations in concurrent transactions.	6
	b)	Explain the centre server algorithm.	6

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