B.E. (Information Technology) Eighth Semester (C.B.S.) Distributed Systems

P. Pages: 2 Time: Three Hours



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Max, Marks: 80

	Note	s: 1.	All questions carry marks as indicated.	
		2.	Solve Question 1 OR Questions No. 2.	
		3.	Solve Question 3 OR Questions No. 4.	
		4.	Solve Question 5 OR Questions No. 6,	
		5.		
		6.	[11] [2] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1	
		7.		
		8.		
		9.	Illustrate your answers whenever necessary with the help of neat sketches.	
1.	a)	What	the inherent limitations of distributed system?	6
	b)	Descr	ribe distributed computing models.	7
	2)		A 352	
			OR	
2.	a)	Draw	and explain client – server model.	7
	b)	Enlist	and explain the design issues in Distributed system.	6
3.	a)	What	the advantages and features of message passing?	6
	b)	Descr	ibe in detail remote procedure call.	8
			OR	
101			(2)	
4.	a)	Draw	and explain Remote object invocation.	8
	b)	What	are the disadvantages of message oriented communication?	6
5.	a)		ribe causal ordering of messages and explain how it can be implemented by a m of logical clock.	7
	b)	Expla	in Election Algorithm in detail.	6
			OR	
6.			e the problem of distributed mutual exclusion. What are the performance metrics e distributed mutual exclusion algorithms? Explain with a suitable example.	13
7.	a)	Differ	rentiate between Resources and communication.	7
	b)	Expla	in the deadlock handling strategies in distributed system.	13
			OR	

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8.	a)	Explain the control organization of distributed deadlock detection.	
	b)	Explain path pushing algorithm in detail.	
9.	a)	What are the issues of distributed shared memory?	
	b)	Write short note on Granularity. 6	
10.	a)	Describe structures of shared memory space. 7	
	b)	What are the advantages of DSM.	
11.	a)	Describe in detail the desirable features of good distributed file system.	
	b)	What are the different caching methods available? Explain.	
E		OR	
12.		Write short note on.	
		i) File Replication.	
		ii) Fault tolerance.	
		iii) CORBA RMI and services.	
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