B.E. Eighth Semester (Computer Science & Engineering) (C.B.S.) **Distributed Operating System**

P. Pages: 2 Time: Three Hours				KNT/KW/16/7608 Max. Marks : 80	
	Note		Solve Question 1 OP Questions No. 2		
	Note	es: 1. 2.	Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4.		
		2. 3.	Solve Question 5 OR Questions No. 4. Solve Question 5 OR Questions No. 6.		
		3. 4.	Solve Question 7 OR Questions No. 8.		
		5.	Solve Question 9 OR Questions No. 10.		
		6.	Solve Question 11 OR Questions No. 12.		
		7.	Assume suitable data whenever necessary.		
		8.	Illustrate your answers whenever necessary with the help of neat sketches.		
10	a)	Define l	Distributed operating system and what are the advantages of Distributed system.	6	
)(b)	Discuss	s the designing issues of Distributed operating system.	8	
			OR		
2.	a)	What is clock.	the necessity of logical clock? Explain working principle of lamports logical	8	
	b)	What is	meant by cuts of distributed computation? What is consistent cut?	6	
3.	a)	Explain	Lamport's Algorithm.	7	
	b)	What ar	re the requirements of mutual exclusion algorithm.	6	
		(6)	OR	1/5	
4.	a)	Explain	Raymond's tree-based Algorithm.	27	
	b)	Discuss	s comparative performance analysis among various mutual Exclusion algorithm.	6	
5.	a)	Discuss	deadlock handling strategies in Distributed system.	7	
	b)	What ar	re Agreement protocols? Explain.	6	
			OR		
6.	a)		nat Byzantine agreement cannot always be reached among four processors if two ors are faulty.	7	
TE	b)	What is	deadlock Explain with an example.	6	
7.	a)	What ar	re mechanisms for building Distributed file system.	7	
	b)	Explain	memory coherence with an example.	7	
			OR (C)		

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8.	a)	What is meant by distributed file system. 7	5)
(i)	b)	Explain coherence protocols. 7	
9.	a)	What are the issues in load Distributing?	
	b)	Explain the concept of load distributing along with Receiver initiated algorithm. 7	
		OR	
10). a)	Discuss the various policies of load Distributing algorithm. 8	
	b)	What are the requirements for load distributing?	_ [
11	l. a)	What is commit protocol? Explain two phase commit protocol. 7	
ES	b)	What is Orphan message? Explain.	9
(8)		OR	
12	2. a)	Explain dynamic voting protocols. 7	
	b)	What are the lost messages?	
60			
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