Faculty of Science & Technology

Sixth Semester B. Tech. (Computer Science Engineering) (C.B.C.S.) Examination

DISTRIBUTED OPERATING SYSTEMS

Elective-III

		[Maximum Marks	: 70
Time: Three Hours] INSTRUCTIONS TO CANDIDATES			
	(1)	All questions carry marks as indicated.	
	(2)	Solve Question 1 OR Question No. 2.	
	(3)	Solve Question 3 OR Question No. 4.	
	(4)	Solve Question 5 OR Question No. 6.	
	(5)	Solve Question 7 OR Question No. 8.	
	(6)	Solve Question 9 OR Question No. 10.	6
<u> </u>	(A)	Define Distributed Operating System and what are the advantages of Distributed System?	8
	(B)	Discuss the designing issues of Distributed Operating System.	
		OR	7
2.	(A)	What are the limitation of distributed system?	7
	(B)	Explain the architecture of Distributed Operating System.	7
3.	(A)	State & explain Lamport's algorithm for mutual inclusion. What are the requirements of mutual exclusion algorithms? Explain.	7
	(B)		
		State & explain comparative performance analysis of all token-based and Non-token based	sed
4	(A)		7
	œ١	State how to analyze performance of mutual exclusion algorithm?	7
٠.	(B)	and the deale ? Explain with an example.	7
3/		Explain Ho-Ramamurthy centralized deadlock detection algorithm.	•
	(B)	UK	6
,	(4)	Discuss deadlock handling strategies in distributed system.	ith
6.	(B)	Discuss deadlock handling strategies in distributed system. Explain Chandy - Mishra - Haas's Edge chasing algorithm for distributed deadlock detection w	8
	(D)	the help of example.	7
7./	(A)	Explain architecture of distributed file system.	7
19	(B)	Explain memory coherence with example.	
	(2)	OR	7
8.	(A)	Explain coherence protocols.	7
	(B)	Explain coherence protocols. List and explain various algorithm for implementing distributed shared memory. State & explain receiver-initiated algorithm for load distributing.	8
9.	(A)	State & explain receiver-initiated algorithm for load distributing.	6
	(B)	Explain adaptive algorithm for load distribution.	0
)		OR and load sharing algorithm?	8
10.	(A)	OR Explain how task migration effects the performance of load sharing algorithm? Explain the issues in load distributing.	6
	(B)	Explain the issues in load distributing.	10
		https://www.rtmnuonline.com	10
		The second continuous and a se	