PRN:		Course Code :	CST401

Final Year **B. Tech** End Semester Examination Winter 2022

Distributed and Parallel Computing

Day and Date: 12/12/2022, Monday Max Marks: **100**

Time : 10:30a.m.TO 01:30 p.m. Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom 's Level	CO
Q.1		**Attempt the following**			
	a)	Identify and explain different scaling techniques in distributed system	08	L1	CO1
	b)	Draw and explain role of TP monitor in distributed system.	08	L6	CO1
		OR			
	b)	Differentiate between cluster computing and Grid computing.	08	L3	CO1
Q.2		**Attempt the following**			
	a)	Explain methods of client to server binding in detail.	08	L2	CO1
	b)	Discuss about code migration in distributed system in detail.	08	L2	CO2
		OR			
	b)	Discuss about implementation of virtualization in detail.	08	L2	CO2
Q.3		**Attempt any two from the following**			
	a)	Discuss in detail asynchronous RPC	08	L2	CO2
	b)	Explain Bully algorithm in detail.	08	L2	CO2
	c)	List and explain socket primitives in detail.	08	L6	CO2
Q.4		**Attempt any two from the following**			
	a)	Illustrate token ring algorithm in detail.	08	L1	CO3
	b)	Explain distributed algorithm for mutual exclusion.	08	L2	CO3
	c)	Discuss on clock synchronization in distributed system.	08	L2	CO3
Q.5		**Attempt any Two of the following**			CO3
	a)	Explain Collective Communications in detail.	09	L2	CO3
	b)	Discuss on shared memory programming and message passing programming.	09	L2	CO4
	c)	Explain concept of parallel programming in detail.	09	L2	CO4
Q.6		**Attempt any Two of the following**			
	a)	Discuss on parallel virtual machine.	09	L2	CO4
	b)	Explain different types of communication in message passing paradigm.	09	L2	CO4
	c)	Discuss on Message Passing Paradigm in detail.	09	L2	C41

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