CSE

PRN:		Course Code :	CST 2701

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

Distributed and Parallel Computing

Day and Date: Tuesday, 28/11/2023 Max Marks: **100**

Time : 2.00 to 5.00 PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Explain different scaling techniques in distributed system	08	L1	CO!
	b)	Describe cluster computing and Grid computing in detail.	08	L6	CO1
		OR			
	b)	Draw and explain distributed system as middleware.	08	L3	CO1
Q.2		**Attempt the following**			
	a)	Explain clients in distributed systems with a solution to allow access to remote application.	08	L2	CO1
	b)	Explain use of 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)	Explain with neat diagram remote procedure call (RPC).	08	L2	CO2
	b)	Explain Bully algorithm in detail.	08	L2	CO2
	c)	Discuss on message-oriented persistent communication.	08	L6	CO2
Q.4		**Attempt any two from the following**			
	a)	Discuss on token ring algorithm in detail.	08	L1	CO3
	b)	Explain centralized algorithm for mutual exclusion.	08	L2	CO3
	c)	Explain Berkeley algorithm with example.	08	L2	CO3
Q.5		**Attempt any Two of the following**			CO3
	a)	Discuss on Multiple Programs Multiple Data (MPMD).	09	L2	CO3
	b)	Explain shared memory programming and message passing programming.	09	L2	CO4
	c)	Explain various type of parallel programming model.	09	L2	CO4
Q.6		**Attempt any Two of the following**			
	a)	Explain blocking and non-blocking Communication in detail.	09	L2	CO4
	b)	Explain different types of communication in message passing paradigm.	09	L2	CO4
	c)	Explain the basic message passing model.	09	L2	C41

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