Paper / Subject Code: 52771 / Distributed Computing

B.E. | GOMP | Sem-VIII | (BCCC/R-19 / 'C' Scheme / Subi-DC/ Dato: -02/12/204) (Time: 3 Hours) Total Marks: 80

N.B:	 Question number 1 is compulsory. Attempt any THREE out of the remaining. Assume suitable data if necessary and justify the assumptions. Figures to the right indicate full marks. 	
Q1	The Tay of	40
A	Explain key Features of Global Scheduling algorithm.	[05]
В	What are the services offered by middleware?	[05]
C	Differentiate between RMI and RPC.	[05]
D	Explain synchronization in DFS with its challenges.	[05]
Q2		
A	Justify how load balancing is useful in distributed system.	[10]
В	What is fault tolerance? Explain failure models.	[10]
Q3		
A	Explain group communication.	[10]
В	Explain Raymond's tree based algorithm for mutual exclusion.	[10]
Q4		
A	Explain Ricart-Agrawala's algorithm and how it optimizes the message overhead in achieving mutual exclusion.	[10]
B	Discuss Google file system (GFS) as a scalable distributed file system.	[10]
Q5		
A	Explain bully election algorithm.	[10]
В	Discuss code migration in distributed system.	[10]
Q 6	A STATE OF THE STA	
A	Explain any five data centric consistency models.	[10]
В	Discuss design issues in distributed systems.	[10]