

**K. J. Somaiya Institute of Technology, Sion, Mumbai-22**  
**(Autonomous College Affiliated to University of Mumbai)**

May-June 2024		
(B.Tech / M.Tech.) Program: Computer Engineering Scheme : II		
Regular Examination: LY Semester: VIII		
Course Code: CEC801 and Course Name: Distributed Computing		
Date of Exam: 14/05/2024	Duration: 02.5 Hours	Max. Marks: 60

Instructions:				
(1) All questions are compulsory.				
(2) Draw neat diagrams wherever applicable.				
(3) Assume suitable data, if necessary.				
		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	Discuss the goals of distributed Systems	2	CO1	U
ii)	Draw and explain RPC	2	CO2	U
iii)	What is the need of Mutual exclusion in Distributed Computing	2	CO3	U
iv)	State the features of Global scheduling algorithms	2	CO4	U
v)	How does replication and consistency help in distributed computing	2	CO5	U
vi)	What is fault tolerance in RPC	2	CO6	U
vii)	Discuss in short about distributed file systems	2	CO6	U
viii)	Explain the concept of threads	2	CO4	U
Q.2	Solve any four questions out of six.	16		
i)	Demonstrate Client server model with a neat diagram	4	CO1	AP
ii)	Compare and contrast RMI and RPC	4	CO2	AN
iii)	Explain Election algorithm with an example	4	CO3	U
iv)	Explain load sharing approach	4	CO4	U
v)	Compare Data centric and client centric models	4	CO5	AN
vi)	Explain Distributed File system	4	CO6	U
Q.3	Solve any two questions out of three.	16		



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i)	Demonstrate NOS and DOS in detail	8	CO1	AP
ii)	Demonstrate Inter process communication in distributed systems	8	CO2	AP
iii)	Explain Ricart–Agrawal’s Algorithm in detail	8	CO3	U
Q.4	Solve any two questions out of three.	16		
i)	Explain process management in detail	8	CO4	U
ii)	Explain Fault tolerance in group communication	8	CO5	U
iii)	Demonstrate Google file system for designing distributed systems	8	CO6	AP

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