www.FirstRanker.com

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VIII (OLD) EXAMINATION - WINTER 2020

Subject Code:180701 Date:21/01/2021

Subject Name:Distributed Systems

Time:02:00 PM TO 04:00 PM Total Marks: 56

Instructions:

- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full markss.

Q.1	(a) (b)	Define Distributed system. Compare distributed computing models Explain merits and demerits of the various process addressing techniques	07 07
Q.2	(a) (b)	Draw and explain ATM cell format Explain IPC Synchronization	07 07
Q.3	(a) (b)	Explain RPC implementation Define causal ordering. Discuss the issues in designing load balancing algorithms	07 07
Q.4	(a) (b)	List the main features of Java RMI. Discuss the various components and the process of RMI execution Explain the issues in designing load sharing algorithms	07 07
Q.5	(a) (b)	Discuss and compare various election algorithms Explain four necessary and sufficient conditions for a deadlock to occur	07 07
Q.6	(a) (b)	Categorize and compare mutual exclusion algorithms Explain asynchronous point to point message passing and asynchronous broadcast	07 07
Q.7	(a) (b)	List the steps of Process Migration. Explain advantages of Process Migration Explain desirable features of a good naming system	07 07
Q.8	(a) (b)	Explain design issues in DSM systems Explain various object-locating mechanisms in distributed systems	07 07
