DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Winter Examination – 2022

Course: B. Tech.   **Branch: Computer Engineering/CSE**   **Semester: VII**

Subject Code & Name: BTCOE702B Distributed System

Max Marks: 60   **Date: 30/01/2023**   **Duration: 3 Hr.**

Instructions to the Students:
1. *All the questions are compulsory.*
2. *The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in ( ) in front of the question.*
3. *Use of non-programmable scientific calculators is allowed.*
4. *Assume suitable data wherever necessary and mention it clearly.*

		(Level/CO)	Marks
Q. 1	**Solve Any Two of the following.**		**12**
A)	**What is Distributed Computing system? Differentiate between Tightly Coupled System and Loosely Coupled System**	**Remember**	**6**
B)	**Explain Workstation distributed computing system model..**	**Understand**	**6**
C)	**What is DCE? How was DCE created?**	**Understand**	**6**
Q.2	**Solve Any Two of the following.**		**12**
A)	**Explain RPC mechanism with the help of diagram**	**Remember**	**6**
B)	**Identify methods of stub generation in RPC.**	**Analyze**	**6**
C)	**Write short note on Broadcast RPC.**	**Understand**	**6**
Q. 3	**Solve Any Two of the following.**		**12**
A)	**What is Deadlock? State necessary conditions for deadlock**	**Remember**	**6**
B)	**Draw and Explain general architecture of Distributed Shared Memory.**	**Understand**	**6**
C)	**Explain Causal Consistency model of DSM.**	**Understand**	**6**
Q.4	**Solve Any Two of the following.**		**12**
A)	**Compare deterministic versus probabilistic approach of load balancing algorithms.**	**Analyze**	**6**
B)	**Describe desirable features of good Global Process Scheduling algorithms.**	**Understand**	**6**
C)	**Summarize activities involved in process migration.**	**Analyze**	**6**
Q. 5	**Solve Any Two of the following.**		**12**
A)	**State advantages of using distributed file system.**	**Analyze**	**6**
B)	**Explain concept of mutable and immutable files.**	**Remember**	**6**
C)	**State advantages of Replication.**	**Analyze**	**6**

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