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| Signature | |

VIMAL JYOTHI ENGINEERING COLLEGE
JYOTHI NAGAR, CHEMPERI – 670632, KANNUR D.T., KERALA
An ISO 9001 : 2015 Certified Institution

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| Series Test | **2** | Year/Semester | **4th Year-Semester 8** |
| Subject | **CST402-DISTRIBUTED COMPUTING** | Branch | **CS** |
| Date of Exam | | Duration | |
| Starting time | | Max. Marks | **15** |

**Instructions to Students :**

The assignment is intended to implement the given algorithm with respect to the distributed system. The presentation should include the following:
1. Identifying the Requirement specification to implement the algorithm
2. Implementation with output

| Sl. No | Batch | Q.No |
|---|---|---|
| 1 | Roll No. 1-5 | 1 |
| 2 | Roll No. 6-10 | 2 |
| 3 | Roll No. 11-15 | 3 |
| 4 | Roll No. 16-20 | 4 |
| 5 | Roll No. 21-25 | 5 |
| 6 | Roll No. 26-30 | 6 |
| 7 | Roll No. 31-35 | 7 |
| 8 | Roll No. 36-40 | 8 |
| 9 | Roll No. 41-45 | 9 |
| 10 | Roll No. 46-50 | 10 |
| 11 | Roll No. 51-55 | 11 |
| 12 | Roll No. 56-60 | 12 |

***Answer 1 out of 12question(s)***

| Q.No | | Marks | CO | Level |
|---|---|---|---|---|
| 1 | Bully algorithm for distributed file system. | 15 | CO1, CO2 | L2 |

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|---|---|---|---|---|
| 2 | Ring algorithm for distributed file system. | 15 | CO1, CO2 | L2 |
| 3 | Chandy Lamport algorithm for distributed debugging. | 15 | CO1, CO2 | L2 |
| 4 | Ricart–Agrawala algorithm for distribued system. | 15 | CO1, CO3 | L2 |
| 5 | Maekawa's algorithm for distributed system. | 15 | CO1, CO3 | L2 |
| 6 | Suzuki–Kasami's broadcast algorithm for distributed database. | 15 | CO1, CO3 | L2 |
| 7 | Lamport's algorithm for distributed database. | 15 | CO1, CO3 | L2 |
| 8 | Bully algorithm for distributed database. | 15 | CO1, CO2 | L2 |
| 9 | Ring algorithm in IoT network. | 15 | CO1, CO2 | L2 |
| 10 | Chandy-Lamport algorithm for consistent state capture in distributed database. | 15 | CO1, CO3 | L2 |
| 11 | Suzuki–Kasami's broadcast algorithm in IoT network. | 15 | CO1, CO3 | L2 |
| 12 | Lamport's algorithm for distributed file system. | 15 | CO1, CO3 | L2 |

**CO1 :** Summarize various aspects of distributed computation model and logical time
**CO2 :** Illustrate election algorithm, global snapshot algorithm and termination detection algorithm.
**CO3 :** Compare token based, non-token based and quorum based mutual exclusion algorithms.

***Level:** Knowledge level based on Blooms Taxonomy
[ L2. Understanding ]