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| Faculty of Engineering & Technology | | | |
| Ramaiah University of Applied Sciences | | | |
| Department | Computer Science and Engineering | Programme | B.Tech in CSE |
| Semester/Batch | 06/2019 | | |
| Course Code | 19CSC313A | Course Title | Distributed and Cloud Computing |
| Course Leader(s) | Jishmi , Prakash, Chaitra | | |

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| Assignment-1 | | | | | | | | |
| Register No. | | |  | Name of Student | |  | | |
| Sections |  | **Marking Scheme** | | | Max Marks | | First Examiner Marks | Second Examiner Marks |
| Part-A | A.1 | Need for Distributed Systems in Modern Computing | | | 03 | |  |  |
| A.2 | Select any conference paper on any one distributed system application and give a summary | | | 07 | |  |  |
| A.3 | Stance taken and justification with the support of conference paper | | | 05 | |  |  |
|  | **Part-A Max Marks** | | | **15** | |  |  |
| Part-B  B.1 | B.1.1 | Design algorithm(s)/flowchart(s) for the problem | | | 04 | |  |  |
| B.1.2 | Implementation | | | 04 | |  |  |
| B.1.3 | Results and Analysis | | | 02 | |  |  |
|  | **B.1 Max Marks** | | | **10** | |  |  |

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| **Course Marks Tabulation** | | | | |
| **Component- 1(B) Assignment** | **First Examiner** | **Remarks** | **Second Examiner** | **Remarks** |
| A |  |  |  |  |
| B1 |  |  |  |  |
| **Marks (out of 25 )** |  |  |  |  |
| Signature of First Examiner Signature of Second Examiner | | | | |

**Assignment-1**

**Instructions to students:**

1. The assignment consists of **2** questions: Part A –**1** Question, Part B- **1**Question.
2. Maximum marks are **25**.
3. The assignment has to be neatly word processed as per the prescribed format.
4. The maximum number of pages should be restricted to **10**.
5. The printed assignment must be submitted to the course leader.
6. **Submission Date:**
7. **Submission after the due date is not permitted.**
8. **IMPORTANT**: It is essential that all the sources used in preparation of the assignment must be suitably referenced in the text.
9. Marks will be awarded only to the sections and subsections clearly indicated as per the problem statement/exercise/question

**Part A 15 Marks**

The on-going trend towards the use of Distributed Systems in real-world is a major transition in the history of computing. The motivation, architectures and models of Distributed Systems were discussed in the class. One of the critical questions that needs to be debated is the role of Distributed Systems knowledge in the field of Modern Computing: whether a grounding in Distributed Systems is needed for a successful development of Modern Computing based solutions.

Develop a debate on

**“*Is Distributed Systems Knowledge Essential for Modern Computing Professionals?*”**

Your debate should address the following:

**A1.1** Need for Distributed Systems in Modern Computing

**A1.2** Select any conference paper on any one Distributed Systems application and give a summary

**A1.3** Stance taken and justification with the support of conference paper

**Part B 10 Marks**

**B.1** Client-server architecture (client/server) is network architecture in which each computer or process on the network is either a client or a server. Servers are powerful computers or processes dedicated to managing disk drives (file servers), printers (print servers), or network traffic (network servers).

Develop a simple calculator program using client server architecture. Client should accept the input, send it to the server, process/calculate it and send it back to client.

**B1.1** Problem solving approach

**B1.2** Implementation

**B1.3** Results and Analysis

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