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**Manav Rachna International Institute of Research and Studies**

Faculty of Engineering and Technology

**Department of Computer Science and Engineering**

**Assignment Sheet-1**

**Subject Name: Distributed Operating System Assignment number: 1**

**Subject Code: BCS-DS-726 Class / Semester: 7th**

**Max. Marks : 10 Time Allowed: 1 week**

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| --- | --- | --- |
| **Q. No:**  Q.1.  Q.2.  Q.3.  Q.4.  Q.5.  Q.6. | Enumerate the pros and cons of Distributed Systems. Also ,discuss the design issues of Distributed Systems.    Define Scalability. Elaborate various scaling techniques.  Differentiate between multiprocessing and multicomputing with a suitable example.  Describe logical clocks and physical clocks using time graph.  How mutual exclusion in distributed system is handled? Show the implementation of the same using C/C++.  Analyse any three consistency models in which synchronization operations are used. | **Mapped Cos**  CO1, L2  CO1, L1  CO1, L2  CO2, L2  CO2, L5  CO3, L4 |

**Prepared By: Approved By:**

**Ms. Pronika Dr. Tapas Kumar**

**Course Teacher (Professor & HOD-CSE)**