Academic Year 2022-2023 Semester – IV Class - Comps A Batch - B

Lab Room no. - 603/2

Name of Student – Harshal Chawan

UID - 2021300019

Name of Course - Design and Analysis of Algorithm (DAA) Total Marks - 100 marks

Weightage - 80 marks

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| Sr. no | Topics | Programs | Date of Performance | Date of  Submission | Marks out of (10) |
| 1 - A) | Experiment on finding the running time of an algorithm. | Functions of n | 7/2/2023 | 14/2/2023 |  |
| 1 - B) | Experiment on finding the running time of an algorithm. | selection and insertion sort | 7/2/2023 | 14/2/2023 |  |
| 2) | Experiment based on divide and conquers approach. | Merge and Quick sort | 28/2/2023 | 14/3/2023 |  |
| 3) | Experiment on Recurrence relation. | Strassen’s Matrix  Multiplication | 28/2/2023 | 28/3/2023 |  |
| 4) | Experiment using dynamic programming approach | Matrix Chain  or  Longest Common  Subsequence | 28/3/2023 | 8/4/2023 |  |
| 5) | Experiment based on greedy approach | Fractional Knapsack | 20/3/2023 | 11/4/2023 |  |
| 6) | Experiment based on graph Algorithms | Dijkstra's Algorithm | 28/3/2023 | 11/4/2023 |  |
| 7) | Experiment using Backtracking strategy | N-Queen Problem | 11/4/2023 | 18/4/2023 |  |
| 8) | Experiment using branch and bound strategy | 15- Puzzle problem | 17/4/2023 | 24/4/2023 |  |
| 9) | Experiment on string matching algorithms | Rabin-Karp  Naïve | 25/4/2023 | 25/4/2023 |  |
| 10) | Experiment based on Approximation Algorithms | Vertex Cover | 25/4/2023 | 25/4/2023 |  |