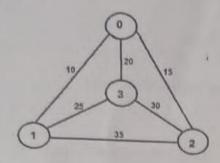
Exhaustive search.

| | Adhlyamaan College of Engineering (Autonomous) | | | | |
|------------------------------------|--|---------------|--|------------------|--|
| | Question Paper | | CSE | | |
| B. E. COMPUTER SCIENCE ENGINEERING | | | Branch: DEPARTMENT OF COMPUTER SCIENCE ENGINEERING | | |
| Semester: II-CSE-C | | | Academic Year: 2024-25 | | |
| Course Code: 422CIT02 | L-T-P Cre | dits: 3-0-0-3 | Course Name: DESIGN AND ANALYSIS OF ALGORITHM | | |
| Time: 1:30 Hrs. CIA-I | | CIA-I | Date: 4.2.2025 | Maximum Mark: 50 | |

| | | Date. 4,2.2025 | Maximu | ım Mark: 50 | |
|------------|---------------------------|--|---|---|---|
| | Question | | Mark | со | BL |
| | | PART-A | | | |
| haracteri | stics of an al | lgorithm. | 2.0 | COI | 2 |
| nd Spac | e complixity. | .Give an example. | 2.0 | COI | 1 |
| pes of no | otations. | | 2.0 | COI | 2 |
| rithm fo | r string mate | hing problem using brute | 2.0 | CO2 | 2 |
| complia | kity of knaps | ack problem. | 2.0 | CO2 | 1 |
| | | PART-B | | | |
| | it asymptotic gorithm. | notationa and basic | 8.0 | COI | 2 |
| ocess of | designing ar | algorithm. | 8.0 | CO1 | 1 |
| irrence re | elation using | substitution method: | 8.0 | CO1 | 3 |
| -1) +1 a | nd T (1) = 6 | 9 (1). | | | |
| ssignme | nt problem | | 8.0 | CO2 | 3 |
| job 2 jol | b 3 job 4 | | | | |
| 2 | 7 8 | | | | |
| 4 | 3 7 | | | | |
| 8 | 1 8 | | | | |
| | | and the same of th | | | |
| 9 | 6 search | 6 9 4 search technique to dution to the TSP (c | 6 9 4 search technique to find the solution. dution to the TSP (cities and distance) by using | 6 9 4 search technique to find the solution. dution to the TSP (cities and distance) by using 8.0 | 6 9 4 search technique to find the solution. dution to the TSP (cities and distance) by using 8.0 CO2 |



Question Paper Level: 112/50=2.24

CO: Course Outcomes

- CO1: Analyze the efficiency of recursive and non-recursive algorithms mathematically
- CO2: Analyze the efficiency of brute force, divide and conquer, decrease and conquer,
 Transform and conquer algorithmic techniques

BL: Blooms Taxonomy Level

6-Creating, 5-Evaluating, 4-Analyzing, 3-Applying, 2-Understanding, 1-Remembering,

| Prepared by (Fac | ulty in charge) | Verified by (DQAC member) | Approved by (HOD) | |
|------------------|-----------------|---------------------------|-------------------|--|
| LAVANYA A | Lug 29/1/25 | 1/25/201/25 | for wantifur | |