Subject Code: AY:2024-25



## MATRUSRI ENGINEERING COLLEGE (An Autonomous Institution) 16-1-486, Saidabad, Hyderabad-500059 (Approved by AICTE, Affiliated to Osmania University)



## **Department of Information Technology**

| B.E. VI-SEM Assignment -3 |
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| Subject: DAA (PC602IT) Marks: 10 M |   |                                |       |    |     |
|------------------------------------|---|--------------------------------|-------|----|-----|
| S.No.                              | Questi  | ons                            | Marks | BL | СО  |
| 1                                  | Solve the following 0/1 Knapsack proble (10, 8, 12), W= (2, 3, 7), C=10, n=3.                                       | m using dynamic programming P= | 2 M   | L3 | СОЗ |
| 2                                  | Find minimum path cost be following multistage graph us   |                                | 3M    | L3 | CO3 |
| 3                                  | Consider three stages of a system with roc2=20, c3=30 Where the total cost of the u3=2 find the reliability design. |                                | 2 M   | L3 | CO3 |
| 4                                  | Let n=4 and (a1,a2,a3,a4) Construct operation a4) = (do, if, int, while), $p(1:4) = (3,3,1)$                        | •                              | 3 M   | L3 | CO3 |
| 5                                  | Apply Floyd's algorithm for constructions shortest path for the following   |                                |       |    |     |