| Q. No. | Question  | COs,<br>RBT level | Marks |
|--------|---|-------------------|-------|
| 9,1    | Illustrate the principle of optimality.   | CO2, L3           | 2     |
| Q.2    | Evaluate the efficiency of Floyd-Warshal Algorithm.   | CO3, L5           | 2     |
| Q.3    | Identify the shortcomings of the Dijkstra's Algorithm. Suggest and discuss a superior algorithm than it.      | CO3, L2           | 4     |
| Q.4    | Demonstrate how greedy algorithm design technique is used solve the knapsack problem.                         | CO2, L3           | 4     |
| Q.5    | Examine the complexity of quicksort algorithm in detail.  | CO1, L4           |       |
| 2.6    | Compare the working and performance of Prim's and Kruskal's algorithms to compute minimum cost spanning tree. | CO3, L4           | 8     |

Course Outcomes (CO)
Students will be able to