

KONGU ENGINEERING COLLEGE, PERUNDURAI

DEPARTMENT OF COMPUTER APPLICATIONS

22MCT12- Advanced Data Structures and Algorithms

TUTORIAL TEST - VII

PART-A

1. List any four terminologies in graph data structures. (CO3, K1)
2. Mention the types of graphs with example (CO3, K1)
3. Show the adjacency matrix of the given graph (CO3, K2)
4. Demonstrate the adjacency list of the specified graph (CO3, K2)
5. Find the In degree and Out degree of the particular given. (CO3, K2)

PART-B

1. Construct the minimum spanning tree for the given graph using Prim's algorithms (CO3, K3)
2. Apply Kruskal's algorithm to find the minimum spanning tree for the given graph (CO3, K3)
3. Identify the traversals of the vertices in the given graph using Breadth First Search and Depth First Search (CO3.K3)