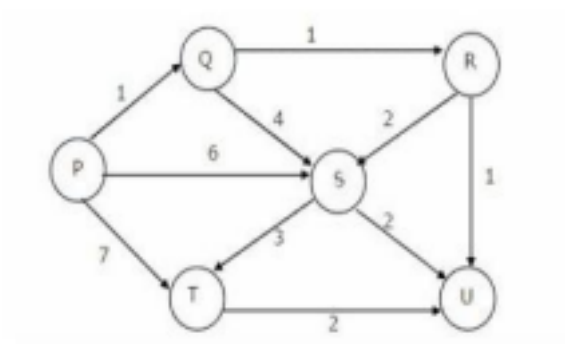


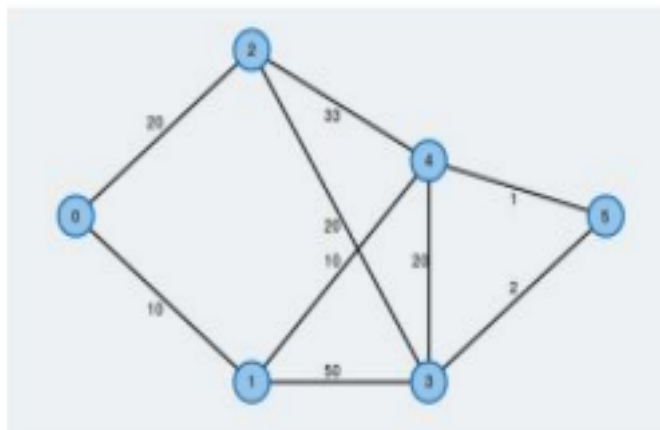
Practice Sheet 2

Q1)



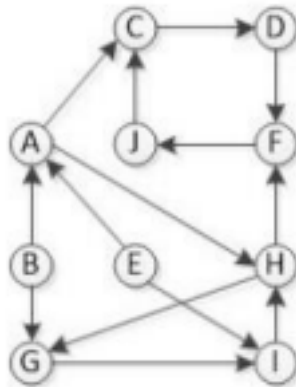
Run Dijkstra's algorithm on the above graph to find the shortest weighted path from 'P' to 'U'.

Q2)



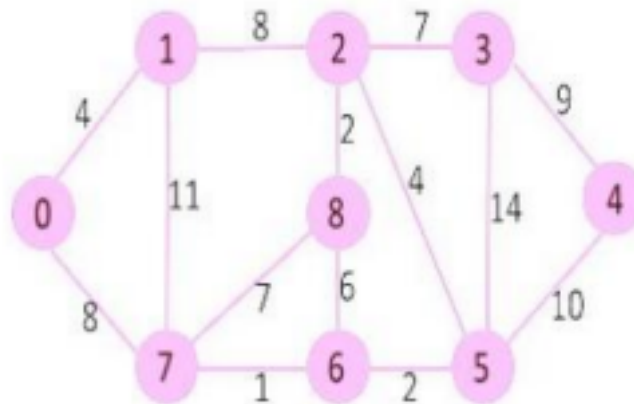
Apply Prim's algorithm to find the Minimum Spanning Tree of the following graph.

Q3)



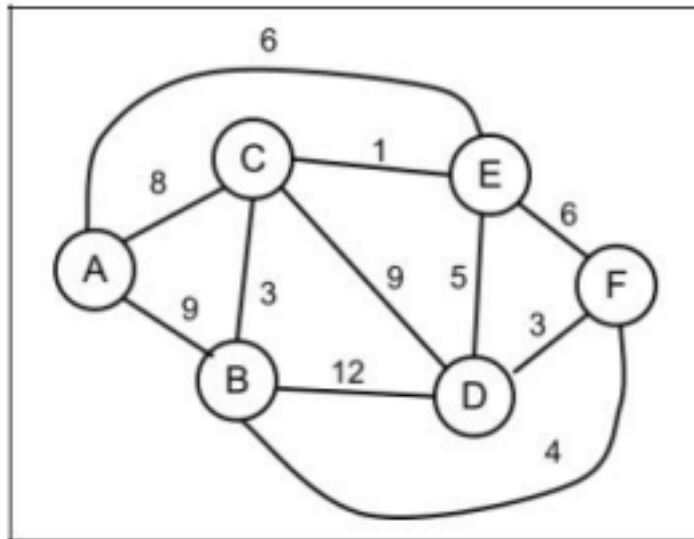
Find the strongly connected components in the following graph.

Q4)



Find the minimum spanning tree of the following graph using kruskal's algorithm.

Q5)



Consider the following graph of a road network. You are planning to connect all of your friends staying at those locations virtually by setting up a broadband network. Determine the total distance you need to cover for broadband set-up such that the total distance will be minimum among all possible ways of connecting your friends virtually.