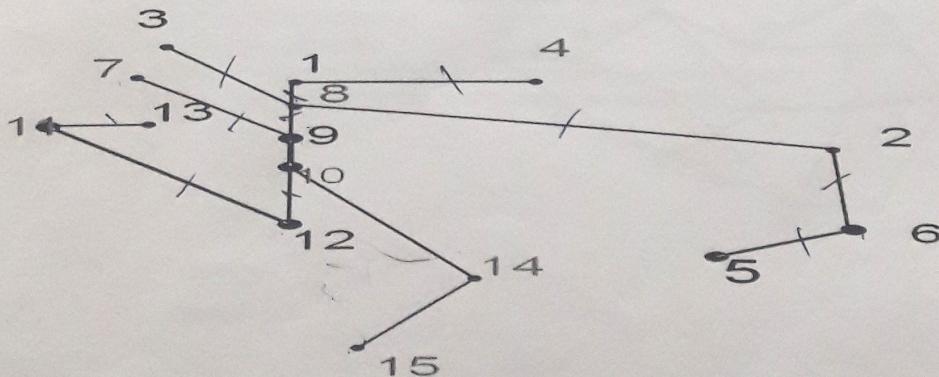
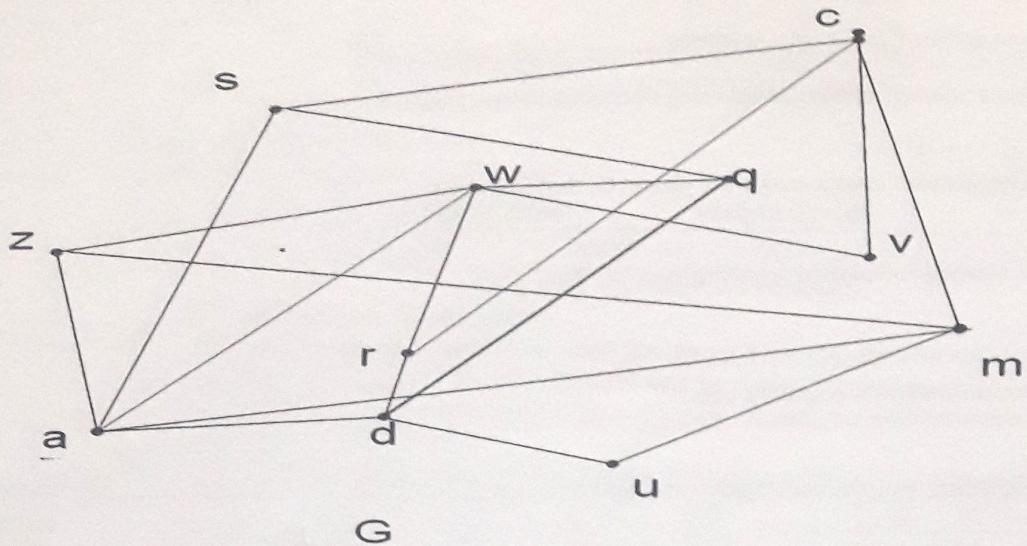


8 Find a labeled tree on string $(3,4,2,4,4,4,4,6,5,4,6)$ (not degree sequence of length $(n-2)$) on n vertices [7]

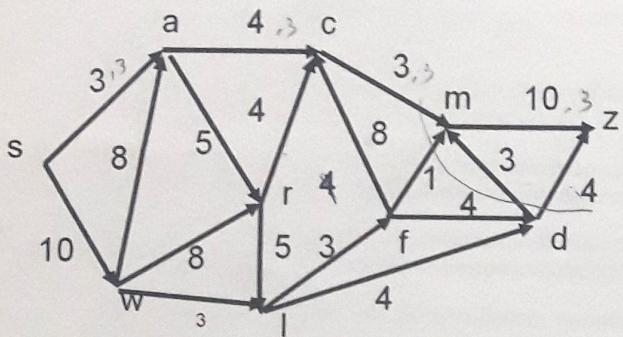
9 For labeled tree on n vertices find string (prufer sequence) of length $(n-2)$ [4]



10(i) Find a Hamiltonian cycle (if exists) in Graph G or state such a cycle does not exist [4]
(ii) write in answer sheet diametral path & Center(s) of graph and eccentricity of all the vertices [10]



11 Find maximum (s,z) flow in given network starting with an initial flow of value 3. Prove flow is maximum through maximum flow minimum cut theorem [10]



12 [5+3]

Find the minimal spanning tree in the weighted graph G through Kruskal's algo write the order in which edges are selected. Find the weight of minimal spanning tree , Find a spanning tree that is at distance 3 from minimum spanning tree explain your answer.

