Mandatory

Home Assignment 2

CSE 2217/CSI 227 (A & D): Algorithms/Data Structure and Algorithms II

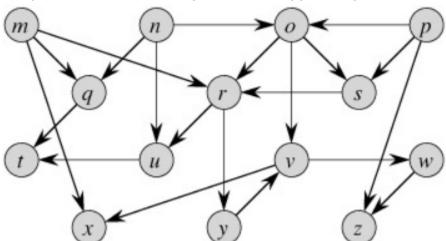
Total marks: 30 Time: 7 days

Answer all the questions below. Show full simulation/tabulation wherever necessary

- 1. Read the "DP_Coin_Change_Generalized" pdf and solve the following question [10]
- a. Amount: 10

Coins: <2,4,6>

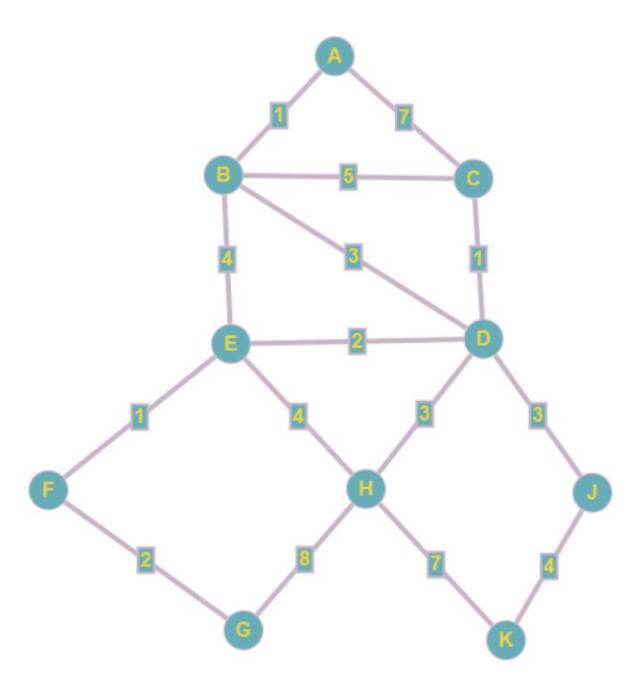
2. Examine the following graph and solve as directed [show full process with queue/stack/one-one-by removal as applicable] [10]



- a. BFS tree
- b. DFS tree
- c. Topological sort

<Please turn over to the next page>

3. Examine the following graph and solve as directed. [Show full process] [10]



- a. Kruskal's Minimum Spanning Tree
- b. Prim's Minimum Spanning Tree