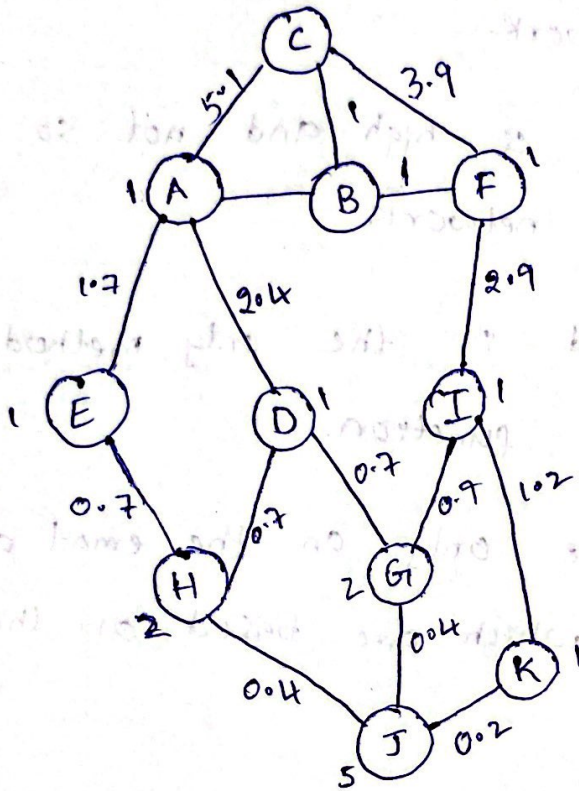


Data Mining

Assignment 9

Q1)

If the tree is rooted from the vertex C, it works as follows:



Q2)

Advantages of AGM

- * It is used when you have large number of nodes
- * It is applicable to the large graphs.
- * This algorithm will work for both the undirected and the unweighted networks.
- * It is used to detect and analyse overlapping communities
- * It will also find solutions for the underlying hierarchical structures and fuzzy nodes.

- * This model also finds communities for directed graphs
- * Defines probabilities of nodes in a communities (AGM) and also strengths of memberships (BIGCLAM)

Disadvantages

- * No of Communities nodes must be Specified to find a model on network.
- * The computation cost is high and not so clear for the type of the network
- * The modularity method is the only method which is used as a fitness function.
- * And it is applicable only on the email and the flicker images and which are based on the clusters only