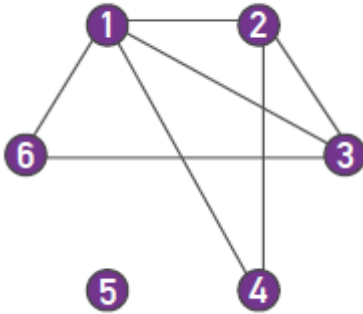


Social and Information Network Analysis

Quiz 1

Registration Number: _____

Q. Consider the following network:



Clustering Coefficient:

$$C_i = \frac{2L_i}{k_i(k_i - 1)}$$

Here, k_i is the degree of i^{th} node and L_i represents the number of links between the k_i neighbors of node i

1. Determine the degree for each node.

Node	1	2	3	4	5	6
Degree						

2. Determine the average degree of the network

Average degree: _____

3. Determine the clustering coefficient for each nodes 1, 2 and 5

Node	1	2	5
Clustering Coefficient			

4. Construct the corresponding Adjacency matrix.