Computer Science and Engineering Department, SVNIT, Surat B. Tech. III, Semester-VI Academic Year – 2023-24 CS342 - Social Network Analysis

Assignment 2: Graph Centrality Measures using Networkx Due date of submission: 2nd February, 2024 11:59 pm.

- (a) Generate the graph shown in figure 1 using Networkx and display the following network measures:
 - 1) Degree Distribution
 - 2) Degree centrality
 - 3) Closeness centrality
 - 4) Betweenness centrality
 - 5) Clustering coefficient
- (b) Generate the graph shown in figure 2 using Networkx and display its Eigenvector centrality.
- (c) Consider the famous social graph published in 1977 called Zachary's Karate Club graph. It is an in-built Graph in Networkx. Demonstrate all the centrality measures for this Graph in NetworkX.

