

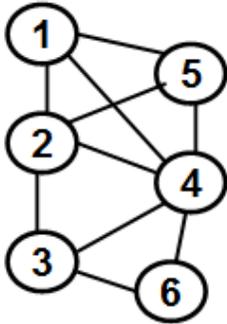
**CSC 641 Network Science, Fall 2017, Instructor: Dr. Natarajan Meghanathan
Quiz 2 (Take Home)**

Due: October 17, 2017 (6 PM, in class). Submit a printed hardcopy in class (with this quiz sheet as a cover page and your name and J# on the top of the sheet).

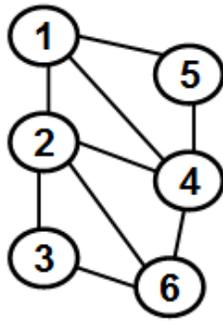
For the graph assigned to you, determine the following:

- (1: 5 pts) Degree centrality; (2: 10 pts) Eigenvector centrality; (3: 15 pts) Closeness centrality
- (4: 10 pts) Farness centrality;
- (5: 10 pts) LCC'DC of the vertices having the largest degree and the smallest degree
- (6: 10 pts) Determine the Kendall's correlation coefficient between centrality metrics (1) and (3)
- (7: 15 pts) Determine the rank-based correlation coefficient between centrality metrics (1) and (2)

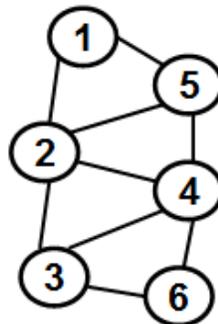
For (2) and (4), you could use the Spectral analysis Java program given to you.



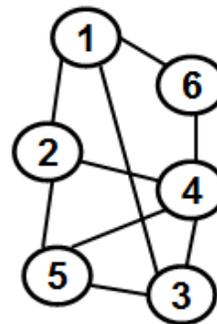
Alton Franklin



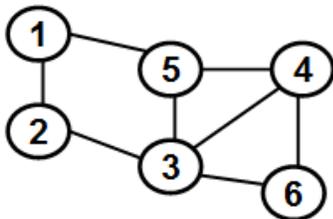
Chirone Gamble



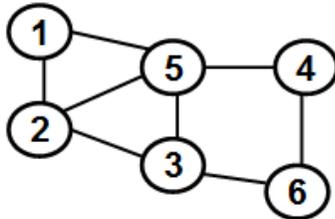
Robin Ghosh



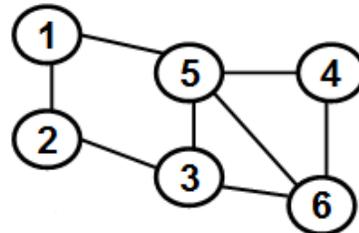
Eric Jackson



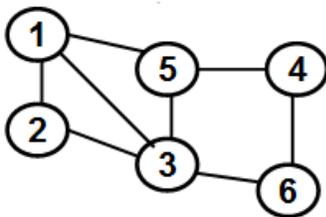
Jonathan Townes



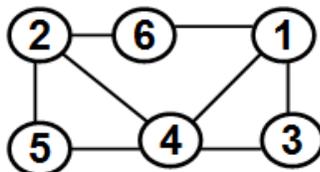
Shengtan Wu



Roman Zubatiuk



Jamoris Miller



Cheronika Manyfield-Donald