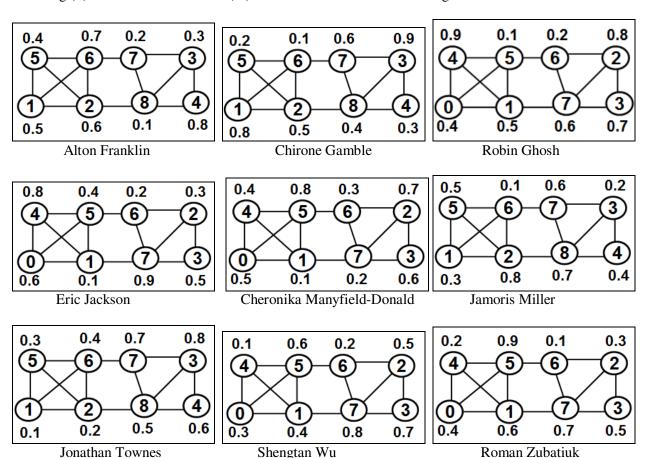
| Student Name: | J#: |
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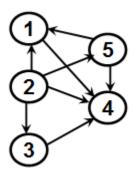
CSC 641 Network Science, Fall 2017

**Quiz 1 (Take Home: Due: Sept. 19, 2017: 6 PM) Total: 100 pts** 

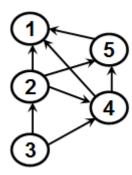
1) (25, 35 pts) Determine the <u>maximal node matching</u> and <u>maximal assortative matching</u> for the following graph. Determine the following for each of the above: (i) the set of edges constituting the matching (ii) the % of node matches (iii) assortative index of the matching.



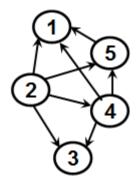
- 2) (20 pts, 20 pts) For the directed graph assigned to you below, determine the following:
- i) Cocitation coupling matrix. Determine the pair(s) of vertices that are most strongly coupled.
- ii) Bibliographic coupling matrix. Determine the pair(s) of vertices that are most strongly coupled.



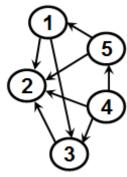
Alton Franklin



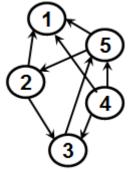
Chirone Gamble



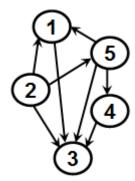
Robin Ghosh



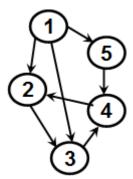
Eric Jackson



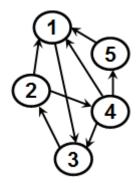
Jonathan Townes



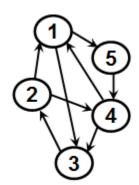
Shengtan Wu



Roman Zubatiuk



Jamoris Miller



Cheronika Manyfield-Donald