Name - Rohan Patil Student ID - 200261263 Course - Algorithms for Data Guided Business Intelligence

Network Properties

Question 1)

i)

- a) Random Graph GNM 1 is not scale free.
- b) Random Graph GNM 2 is not scale free.
- c) Random Graph GNP 1 is not scale free.
- d) Random Graph GNP 2 is not scale free.

ii)

- a) Amazon Graph Small is not scale free.
- b) Amazon Graph Large is not scale free.
- c) DHLP Graph Small is not scale free.
- d) DHLP Graph Large is is scale free.
- e) Youtube Graph Small is scale free.
- f) Youtube Graph Large is scale free.

Question 2)

i) Ranking of the nodes in order of decreasing centrality is

С

F

D

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В

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G I

J

ii) C and F would be the best candidates for holding data since they are the most central nodes.

Question 3)

Members that should be targeted to best disrupt communication are

- a) Mohamed Atta
- b) Usman Bandukra
- c) Mamoun Darkazanli
- d) Essid Sami Ben Khemais
- e) Djamal Beghal
- f) Nawaf Alhazmi
- g) Raed Hijazi