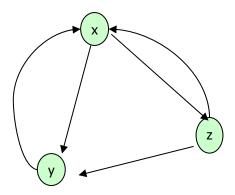
## MSBD5002: Data Mining and Knowledge Discovery (MicroMasters) Exercise 9 Web Databases

## **Q1 HITS Algorithm**

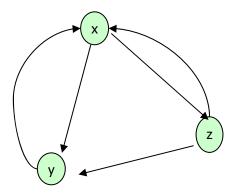
The following shows three sites, namely x, y and z, with their linkage.



- (a) What is the adjacency matrix?
- (b) Consider HITS algorithm.
  - i. What are the values of authorities of these three sites?
  - ii. What are the values of hubs of these three sites?

## Q2 PageRank Algorithm

The following shows three sites, namely x, y and z, with their linkage.



- (a) What is the stochastic matrix?
- (b) Consider PageRank Algorithm. What are the values of page ranks of these three sites?