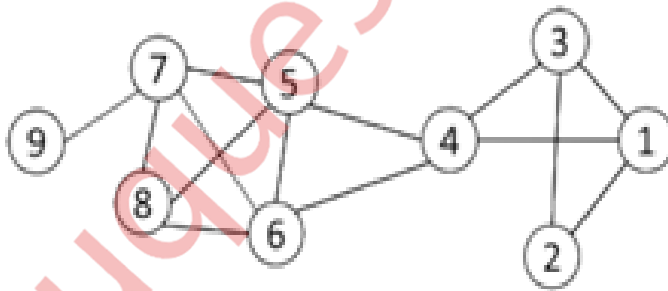


Time: 03 Hours

Marks: 80

- Note: 1. Question 1 is compulsory
2. Answer any three out of the remaining five questions.
3. Assume any suitable data wherever required and justify the same.

- Q1 Write short notes on: [20]
a) Big Data and its characteristics
b) Distance measures for Big Data
c) The Map and Reduce Tasks
d) Bloom filter for stream data mining
- Q2 a) Explain HDFS architecture. [10]
b) Explain Column family store and Graph Store NoSQL architectural pattern with example. [10]
- Q3 a) Write a Map reduce pseudo code to multiply two matrices. Illustrate with an example showing all the steps. [10]
b) Explain Issues in Data stream query processing [10]
- Q4 a) List the main components of Map reduce execution pipeline. [10]
b) Explain DGIM algorithm. [10]
- Q5 a) Explain Collaborative filtering system. How is it different from content based system . [10]
b) What is clique percolation method Write an algorithm on (CPM). [10]
Also show how the CPM finds clique for the following graph. Explain with steps.



- Q6 a) Explain PageRank algorithm. [10]
b) Explain CURE algorithm. [10]
