## 4/12/2024 IT SEM-VIII C SCHEME BDA (DLOC-V) QP CODE: 10065523

Time: 3 Hours Marks: 80

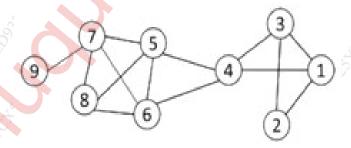
Note: 1. Question 1 is compulsory

- 2. Answer any three out of the remaining five questions.
- 3. Assume any suitable data wherever required and justify the same.

Q1	Explain			[20]
	(a) Big Data and its characteristics.			
	(b) Distance measures for Big Data.			
	(c) The Map and Reduce Tasks.			
	(c) Modified PageRank algorithm.	S) A	A	

- Q2 a) Draw and explain HDFS architecture showing all components.
  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) Explain PCY algorithm and its 2 types with neat labeled diagram. [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.





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