## Paper / Subject Code: 42372 / Big Data Analytics

## 04/06/2025 BE CSE-AIML SEM-VII C-SCHEME BDA QP CODE: 10080908

Time: 05 flours		
2.	Question 1 is compulsory Answer any three out of the remaining five questions. Assume any suitable data wherever required and justify the same.	
Q.1 (a)	Compare traditional data and big data.	05
(b)	What are the advantages and limitations of Hadoop	05
(c)	Differentiate between SQL vs NoSQL	05
(d)	List and explain Distance measures for Big Data	05
Q.2 (a)	Draw Hadoop Ecosystem and briefly explain its components	10
(b)	Write the functions of the components and execution steps in Map Reduce	10
Q.3 (a)	Explain Selection and Projection algebraic operation using MapReduce.	10
(b)	Explain Key-value store and Document Store NoSQL architectural pattern with example.	10
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Q.4 (a)	Draw a neat sketch, explain the architecture of the data-stream management system	10
(b)	Explain DGIM algorithm for counting ones in a stream with example	10
Q.5 (a)	Explain Page rank using Map reduce, also explain spider traps and dead ends	10
(b)	Explain Movie recommendation using Content -based filtering.	10
Q.6	Write short notes on any two (any 2)	20
(a)	Bloom Filter with analysis	
(b)	Cure Algorithm	
(c)	Clustering of Social-Network Graphs.	
(d)	Four ways that NoSQL systems handle big data problems.	
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