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P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belagavi) Fifth Semester, Master of Computer Applications (MCA) Semester End Examination; February - 2022 Big Data and Analytics Time: 3 hrs Max. Marks: 100		
	<i>Note</i> : Answer <b>FIVE</b> full questions, selecting <b>ONE</b> full question from each unit.	100.100
	UNIT - I	
1 a.	List and discuss the four elements of big data.	10
b.	Describe the role of different job titles in data analytics.	10
2 a.	Explain the most common types of financial frauds.	10
b.	With neat diagram, discuss displaying the architecture of HDFS.	10
	UNIT - II	
3 a.	Explain logical flow of data in Map Reduce.	10
b.	Discuss the uses of Map Reduce.	10
4 a.	Describe the working of the Map Reduce algorithm.	10
b.	Discuss the points while designing a file system in Map Reduce.	10
	UNIT - III	
5 a.	Explain interaction of layers in NOSQL and challenges against NOSQL databases.	10
b.	Discuss with neat diagram CAP theorem.	10
6 a.	Differentiate relational data bases with NOSQL databases.	10
b.	Discuss ACID property and alternative to ACID is BASE.	10
	UNIT - IV	
7 a.	Explain Reporting. Give example.	10
b.	Describe categories of big data analytics, when analyzing data.	10
8 a.	Discuss with neat diagram the analytic process.	10
b.	Compare Analytics team and IT team.	10
	UNIT - V	
9 a.	Discuss the various content types and five techniques used for visual data representation	n. 10
b.	Explain applications of data visualization.	10
10 a.	List and discuss five types of data visualization.	10
b.	Discuss commonly used data visualization tools.	10

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