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-	P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belagavi) Second Semester, M. Tech - Computer Science and Engineering (MCSE) Semester End Examination; June - 2017 Managing Big Data Time: 3 hrs Max. Marks: 100	
-	Note: Answer FIVE full questions, selecting ONE full question from each unit.	
	UNIT - I	
1 a	. Apply Big data analytic framework to real time fraud detection problems. Also identify the	
	potential data sources.	
b	Analyze the operations of Distributed file system and RDBMS.	
2 a	. Describe the impact of Big Data on advertising industry.	
b	. Explain Big Data and Hadoop open source technologies.	
	UNIT - II	
3 a	. Construct a two level aggregate structure for customer information in a column-family structure.	
b	. Explain the data models relationships and data base types.	
4 a.	Illustrate with an example, Graph Database structure and relationship.	
b	D. Compare sharding and replication techniques of distribution of data.	
	UNIT - III	
5 a	. Differentiate between Hadoop streaming and Hadoop Pipes.	
b	Discuss in detail the design issues of Hadoop distributed file system.	
6 a	. List the different failures and their effects that need to be considered for running Map-Reduce program on YARN.	
b	. Explain Hadoop primitives for data I/O.	
	UNIT - IV	
7 a	. Explain the process involved in decomposing a problem into Map-Reduce Jobs.	
b	Explain the steps involved in Mapper testing and Reducers testing.	
8 a	. Give the systematic way of Hadoop running a Map-Reduce job using YARN.	
b	. Explain job scheduling for multi user Hadoop and Map-Reduce system.	
	UNIT - V	
9 a	. Explain H Base and their data model and implementations.	
b	. Illustrate with an example, the Cassandra data model.	
10 a	a. Explain in detail pig scripting platform and pit data model.	
ł	b. List the primitive data types of Apache Hive and Hive QL data manipulation.	

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