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P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belgaum) Seventh Semester, B.E Information Science and Engineering Make-up Examination; Jan / Feb - 2017 Big Data	
Time: 3 hrs Max. Marks: 100	
<i>Note</i> : Answer <i>FIVE</i> full questions, selecting <i>ONE</i> full question from each unit. UNIT - I	
1 a. Classify all the three types of Big data of any organization's website. Justify your classification.	10
b. In traditional RDBMS system or Data warehousing what are the types of data analyzed? Now Big data represents a fundamental shift in business decision making. List the external data or new data formats considered for Big data analysis.	10
2 a. Describe the impact of Big data on Industries.	10
b. Apply Big data analysis framework to any application and identify potential data sources used in the framework.	10
UNIT - II	
3 a. What is the data aggregation? List different data models used in NOSQL and explain.	10
b. Polyglot persistent is mandatory in Big data Analytics. Justify the claim.	10
4 a. Explain different data distribution models.	10
b. Compare CAP theorem and ACID transaction.	10
UNIT - III	
5 a. Differentiate Hadoop streaming and Hadoop pipes.	10
b. How Hadoop Analyzes data with Map and Reduce? Give example.	10
6 a. Justify the need for secondary name node in HDFS system. What is the design consideration in this scenario?	10
b. With a diagram, explain the sequence of events that takes place when reading a file between the client and HDFS.	10
UNIT - IV	
7 a. List the different failure need to be considered for Map Reduce programs running on YARN.	10
b. Bring out the anatomy of Map Reduce job Run.	10
8 a. Explain shuffle and sort-task execution with example.	10
b. List the different job schedulers available in later version of Hadoop. Compare its merits with first version of Hadoop.	10
UNIT - V	
9 a. Explain HBase data model.	10
b. Explain Carsandra data model.	10
10 a. Explain Pig latin scripts with example.	10
b. Explain Hive QL data manipulation and Hive QL queries.	10