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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 Engineering (MCEN)
Semester End Examination; May/June - 2018
Managing Rig Data

Managing Big Data Time: 3 hrs Max. Marks: 100 *Note*: Answer *FIVE* full questions, selecting *ONE* full question from each unit. UNIT - I 10 1. Discuss the 4 v's of big data with suitable examples for each. b. Describe the scenario in which we can present fraud using big data analytics with suitable use 10 cases. 2 a. Briefly Explain the HDFS architecture with a suitable sketch also list its major features. 10 b. Discuss the complete execution sequence of map reduce with a suitable example. 10 **UNIT-II** 3 a. Design a map reduce program in java to count the numbers of words given in the following text file:-Hadoop 10 Hive Rackspace **AWS** → mytext.txt 10 b. Discuss the technique to optimize map reduce jobs. 4 a. Discuss the major issues that needs to be considered while designing a file system in map reduce. 10 b. Briefly explain the various characteristics of HBase and its relevance in Big data processing. 10 **UNIT - III** 5 a. Discuss the various benefits and challenges of NOSQL. 10 b. Explain any 2 NOSQL data models with suitable examples. 10 6 a. Differentiate between ACID and BASE properties and state the CAP theorem with a suitable 10 sketch. b. Discuss the various distributions models with suitable examples. 10 **UNIT - IV** 7 a. Explain in detail the analytic process. 10 b. Discuss the role of the IT and analytics team in big data analytics projects. 10 8 a. Differentiate between reporting and analysis with suitable examples for each 10

b. Briefly explain the characteristics of big data analysis with suitable examples

10

UNIT - V

9 a.	Explain in details the various techniques used for visual data representation with suitable sketches.	10	
b.	List and explain the various applications of data visualization.	10	
10 a.	Briefly discuss the analytical techniques used in big data visualization.	10	
b.	Discuss with suitable use-case the use of big data in detecting fraudulent activities in the insurance	10	
	sector.		

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