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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Second Semester, M. Tech - Computer Engineering (MCEN) **Semester End Examination; June - 2016 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.	. Explain big data give any one industry example of big data.					
b.	Explain the importance of big data. Also compare with RDBMS.	10				
2 a.	Write a note on:	10				
	(i) Unstructured data (ii) Grid computing.	10				
b.	Briefly explain inter and trons firewall analytics and also risk in big data.	10				
	UNIT - II					
3 a.	Explain in brief NOSQL and graph databases.	10				
b.	With examples explain aggregate data model.	10				
4 a.	Explain in brief;	10				
	(i) Schema less database (ii) Shording	10				
b.	With an example explain two-stage Map-Reduce calculation.	10				
	UNIT - III					
5 a.	Discuss in detail design of HDFS.	10				
b.	b. Explain in detail java interface for Hadoop.					
6 a.	Explain the following with respect to Hadoop,					
	i) Map file	10				
	ii) Compression.					
b.	Discuss in brief Hadoop streaming and pipes.	10				
	UNIT - IV					
7 a.	What is YARN? Discuss in brief the scheduling in YARN.	10				
b.	Explain shuffle and sort in Map Reduce.	10				
8 a.	Explain in brief Map Reduce Input and output formats.	10				
b.	Explain in detail how Hadoop runs Mop Reduce job.	10				
	UNIT - V					
9 a.	What is Pig? Give Pig data model in detail.	10				
b.	Explain in brief data types and file formats of Hive.	10				
10 a.	With suitable examples explain HIVEQC Queries.	10				
b.	What is Hbase? Explain in brief data mode and implementations.	10				